

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

CLASS I & II IgM HLA ANTIBODY SPECIFICITY ANALYSIS OF 301-305/2018

DESPATCHED ON 17 APRIL 2018

| Lab no. | 301/2018<br>IgM antibodies detected |          |         | 302/2018<br>IgM antibodies detected |          |         | 303/2018<br>IgM antibodies detected |          |         | 304/2018<br>IgM antibodies detected |          |         | 305/2018<br>IgM antibodies detected |          |         |
|---------|-------------------------------------|----------|---------|-------------------------------------|----------|---------|-------------------------------------|----------|---------|-------------------------------------|----------|---------|-------------------------------------|----------|---------|
|         | Class I                             | Class II | Tech.   | Class I                             | Class II | Tech.   | Class I                             | Class II | Tech.   | Class I                             | Class II | Tech.   | Class I                             | Class II | Tech.   |
| 42      | Neg                                 | Neg      | C       | Neg                                 | Neg      | C       | Neg                                 | Neg      | C       | Neg                                 | Neg      | C       | Neg                                 | Neg      | C       |
| 162     |                                     |          |         |                                     |          |         |                                     |          |         |                                     |          |         |                                     |          |         |
| 194     | Neg                                 | Neg      | C       | Neg                                 | Neg      | C       | Neg                                 | Neg      | C       | Neg                                 | Neg      | C       | Neg                                 | Neg      | C       |
| 268     | Neg                                 | Neg      | C + DTT | Neg                                 | Neg      | C + DTT | Neg                                 | Neg      | C + DTT | Neg                                 | Neg      | C + DTT | Neg                                 | Neg      | C + DTT |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

CDC % PRA OF 301-305/2018

DESPATCHED ON 17 APRIL 2018

| Lab no. | T-cell CDC % PRA | B-cell CDC % PRA | PBL CDC % PRA | 301/2018 |        |     | CDC Specificities Detected | 302/2018 |        |     | CDC Specificities Detected | 303/2018 |        |               | CDC Specificities Detected | 304/2018 |        |     | CDC Specificities Detected | 305/2018 |        |     | CDC Specificities Detected |
|---------|------------------|------------------|---------------|----------|--------|-----|----------------------------|----------|--------|-----|----------------------------|----------|--------|---------------|----------------------------|----------|--------|-----|----------------------------|----------|--------|-----|----------------------------|
|         |                  |                  |               | T-cell   | B-cell | PBL |                            | T-cell   | B-cell | PBL |                            | T-cell   | B-cell | PBL           |                            | T-cell   | B-cell | PBL |                            | T-cell   | B-cell | PBL |                            |
| 20      |                  | 40               |               |          |        |     | DR17                       |          |        |     |                            |          |        |               |                            |          |        |     |                            |          |        |     |                            |
| 42      |                  |                  | 40            |          |        | 38  | A3, B7                     |          |        | 0   |                            |          | 0      |               |                            | 0        |        |     |                            |          |        | 8   |                            |
| 136     |                  |                  |               |          |        | 25  | A3, A32, B7                |          |        | 10  | B8                         |          |        | 5             |                            |          |        |     |                            |          |        | 5   |                            |
| 194     |                  |                  | 41            |          |        | 19  |                            |          |        | 0   |                            |          | 15     | A66 (score 4) |                            |          |        |     |                            |          |        | 0   |                            |
| 268     |                  |                  |               | 0        |        |     |                            |          |        | 0   |                            |          |        |               | 0                          |          |        |     |                            |          |        | 0   |                            |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 301/2018

DESPATCHED ON 17 APRIL 2018

**Complement fixing antibodies detected using solid phase assays - NOT ASSESSED**

|            | A3      | B7      | B81     |
|------------|---------|---------|---------|
| Consensus  | Present | Present | Present |
| % reported | 100.0%  | 100.0%  | 100.0%  |
| Lab no.    | spec    | spec    | spec    |
| 114        | A3      | B7      | B81     |
| 273        | A3      | B7      | B81     |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |   |   |   |
|--------|---|---|---|
| Number | 2 | 2 | 2 |
| Total  | 2 | 2 | 2 |

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 302/2018

DESPATCHED ON 17 APRIL 2018

**Complement fixing antibodies detected using solid phase assays - NOT ASSESSED**

| DQ2        |              |
|------------|--------------|
| Consensus  | Not Assessed |
| % reported | 50.0%        |
| Lab no.    | spec         |
| 114        | DQ2          |
| 273        |              |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |   |
|--------|---|
| Number | 1 |
| Total  | 2 |

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 303/2018

DESPATCHED ON 17 APRIL 2018

**Complement fixing antibodies detected using solid phase assays - NOT ASSESSED**

|            | DQ7          | DQ9          |
|------------|--------------|--------------|
| Consensus  | Not Assessed | Not Assessed |
| % reported | 50.0%        | 50.0%        |
| Lab no.    | spec         | spec         |
| 114        | DQ7          | DQ9          |
| 273        |              |              |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |   |   |
|--------|---|---|
| Number | 1 | 1 |
| Total  | 2 | 2 |

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 304/2018

DESPATCHED ON 17 APRIL 2018

**Complement fixing antibodies detected using solid phase assays - NOT ASSESSED**

|            | B49          |
|------------|--------------|
| Consensus  | Not Assessed |
| % reported | 50.0%        |
| Lab no.    | spec         |
| 114        |              |
| 273        | B49          |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|                 |   |
|-----------------|---|
| Number          | 1 |
| Total number of | 2 |

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**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 305/2018

DESPATCHED ON 17 APRIL 2018

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**Complement fixing antibodies detected using solid phase assays - NOT ASSESSED**

Consensus

% reported

Lab no.

114            ND

273            ND

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Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

Number

Total

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 301/2018

DESPATCHED ON 17 APRIL 2018

**Unacceptable antigen listing - NOT ASSESSED**

| Lab no.              | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
|----------------------|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|
| Consensus % reported | Present 95.8% | Present 95.8% | Present 83.3% | Present 95.8% | Not Assessed 54.2% | Present 79.2% | Not Assessed 33.3% | Present 75.0% | Present 91.7% | Present 91.7% | Present 83.3% | Present 83.3% | Present 83.3% | Present 91.7% | Present 79.2% | Present 87.5% | Present 95.8% | Not Assessed 25.0% | Present 87.5% | Present 95.8% | Not Assessed 12.5% | Present 91.7% | Not Assessed 29.2% | Not Assessed 70.8% |
| spec                 | spec          | spec          | spec          | spec          | spec               | spec          | spec               | spec          | spec          | spec          | spec          | spec          | spec          | spec          | spec          | spec          | spec          | spec               | spec          | spec          | spec               | spec          | spec               | spec               |
| 11                   | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 14                   | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 19                   | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 20                   | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 23                   | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 24                   | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 41                   | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 48                   | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 58                   | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 62                   | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 112                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 114                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 117                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 120                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 145                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 149                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 162                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 185                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 194                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 195                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 206                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 232                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 284                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |
| 361                  | A1            | A3            | A23           | A24           | A2403              | A25           | A26                | A34           | A66           | A11           | A29           | A30           | A31           | A32           | A33           | A74           | A36           | A43                | A80           | B7            | B703               | B13           | B63                | B57                |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Number | 23 | 23 | 20 | 23 | 13 | 19 | 8  | 18 | 22 | 22 | 20 | 20 | 20 | 22 | 19 | 21 | 23 | 6  | 21 | 23 | 3  | 22 | 7  | 17 |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |



**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 301/2018

DESPATCHED ON 17 APRIL 2018

**Unacceptable antigen listing - NOT ASSESSED**

| Lab no.             | B58                | B49         | B54           | B55           | B56           | B27           | B2708              | B60           | B61           | B41               | B42           | B47           | B48           | B67           | B73           | B81           | B82           | Cw1                | Cw2                | Cw14              | DR1         | DR103              | DR15               |
|---------------------|--------------------|-------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|--------------------|-------------------|-------------|--------------------|--------------------|
| Consensu. % reporte | Not Assessed 45.8% | Absent 4.2% | Present 83.3% | Present 91.7% | Present 91.7% | Present 91.7% | Not Assessed 45.8% | Present 91.7% | Present 91.7% | Not Assessed 8.3% | Present 91.7% | Present 87.5% | Present 87.5% | Present 91.7% | Present 87.5% | Present 95.8% | Present 87.5% | Not Assessed 12.5% | Not Assessed 62.5% | Not Assessed 8.3% | Absent 4.2% | Not Assessed 29.2% | Not Assessed 58.3% |
| Lab no.             | spec               | spec        | spec          | spec          | spec          | spec          | spec               | spec          | spec          | spec              | spec          | spec          | spec          | spec          | spec          | spec          | spec          | spec               | spec               | spec              | spec        | spec               | spec               |
| 11                  | B58                |             | B54           | B55           | B56           | B27           | B2708              | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    |                    |                   |             |                    |                    |
| 14                  |                    |             | B54           | B55           | B56           | B27           | B2708              | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    | Cw2                |                   |             |                    |                    |
| 19                  | B58                |             | B54           | B55           | B56           | B27           | B2708              | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    | Cw2                |                   |             | DR103              | DR15               |
| 20                  | B58                |             | B54           | B55           | B56           | B27           | B2708              | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    | Cw2                |                   |             | DR103              | DR15               |
| 23                  |                    |             | B54           | B55           | B56           | B27           |                    | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    |                    |                   |             |                    |                    |
| 24                  | B58                |             | B54           | B55           | B56           | B27           |                    | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           | Cw1                | Cw2                |                   |             | DR103              | DR15               |
| 41                  |                    |             | B54           | B55           | B56           | B27           | B2708              | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    | Cw2                |                   |             |                    |                    |
| 48                  | B58                |             | B54           | B55           | B56           | B27           | B2708              | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    | Cw2                |                   |             |                    |                    |
| 58                  | B58                |             | B54           | B55           | B56           | B27           | B2708              | B60           | B61           | B41               | B42           | B47           | B48           | B67           | B73           | B81           | B82           | Cw1                | Cw2                | Cw14              |             | DR103              | DR15               |
| 62                  | B58                |             | B54           | B55           | B56           | B27           |                    | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    | Cw2                |                   |             |                    | DR15               |
| 112                 |                    |             |               | B55           | B56           | B27           | B2708              | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    |                    |                   |             |                    |                    |
| 114                 |                    |             |               |               |               |               |                    |               |               |                   |               |               |               |               |               | B81           |               |                    |                    |                   |             | DR103              | DR15               |
| 117                 |                    |             | B54           | B55           | B56           | B27           |                    | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    |                    |                   |             |                    |                    |
| 120                 |                    |             | B54           | B55           | B56           | B27           |                    | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    | Cw2                |                   |             |                    |                    |
| 145                 |                    |             | B54           | B55           | B56           | B27           |                    | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    | Cw2                |                   |             |                    | DR15               |
| 149                 | B58                |             | B54           | B55           | B56           | B27           | B2708              | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    | Cw2                |                   |             |                    |                    |
| 162                 | B58                |             | B54           | B55           | B56           | B27           | B2708              | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    |                    |                   |             |                    | DR15               |
| 185                 |                    |             |               | B55           | B56           | B27           | B2708              | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    |                    |                   |             |                    |                    |
| 194                 | B58                |             | B54           | B55           | B56           | B27           | B2708              | B60           | B61           | B41               | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    |                    |                   |             | DR103              | DR15               |
| 195                 |                    |             | B54           | B55           | B56           | B27           |                    | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    | Cw2                |                   |             |                    | DR15               |
| 206                 |                    |             | B54           | B55           | B56           | B27           |                    | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    | Cw2                |                   |             |                    | DR15               |
| 232                 |                    | B49         | B54           | B55           | B56           | B27           |                    | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           |                    |                    |                   | DR1         |                    | DR15               |
| 284                 | B58                |             | B54           | B55           | B56           | B27           |                    | B60           | B61           |                   | B42           | B47           | B48           | B67           | B73           | B81           | B82           | Cw1                | Cw2                | Cw14              |             | DR103              | DR15               |
| 361                 |                    |             |               |               |               |               |                    |               |               |                   |               |               |               |               |               |               |               |                    | Cw2                |                   |             |                    |                    |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Number | 11 | 1  | 20 | 22 | 22 | 22 | 11 | 22 | 22 | 2  | 22 | 21 | 21 | 22 | 21 | 23 | 21 | 3  | 15 | 2  | 1  | 7  | 14 |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 301/2018

DESPATCHED ON 17 APRIL 2018

**Unacceptable antigen listing - NOT ASSESSED**

| Lab no.             | DR16               | DR17          | DR18          | DR4               | DR11          | DR12          | DR13          | DR14          | DR1403             | DR1404             | DR7           | DR8           | DR9           | DR52          | DQ6         | DQ2           | DQ7                | DQ4                | Other | Comments  |
|---------------------|--------------------|---------------|---------------|-------------------|---------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|---------------|---------------|-------------|---------------|--------------------|--------------------|-------|---|
| Consensu. % reporte | Not Assessed 50.0% | Present 95.8% | Present 95.8% | Not Assessed 8.3% | Present 95.8% | Present 95.8% | Present 95.8% | Present 91.7% | Not Assessed 16.7% | Not Assessed 16.7% | Present 95.8% | Present 95.8% | Present 95.8% | Present 87.5% | Absent 4.2% | Present 95.8% | Not Assessed 29.2% | Not Assessed 20.8% |       |   |
| 11                  | spec               | spec          | spec          | spec              | spec          | spec          | spec          | spec          | spec               | spec               | spec          | spec          | spec          | spec          | spec        | spec          | spec               | spec               |       |   |
| 14                  | DR16               | DR17          | DR18          | DR4               | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       | Others' field would not populate so not listed. Unacceptable antigens >3000 MFI listed. Cut off MFI of 1500 used for assessment of virtual crossmatch patients.<br>Not list A34 as allele specific. |
| 19                  | DR16               | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       |   |
| 20                  | DR16               | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           | DQ7                |                    |       |   |
| 23                  |                    | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       |   |
| 24                  | DR16               | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       |   |
| 41                  |                    | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       |   |
| 48                  |                    | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       | A*34:02,<br>DQA1*04:01,<br>DQA1*05, DQA1*06   |
| 58                  | DR16               | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           | DQ7                |                    |       | DQA1*04, *05, *06   |
| 62                  | DR16               | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           | DQ7                | DQ4                |       | DQA1*04, *05, *06   |
| 112                 |                    | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          | DR1403             | DR1404             | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       |   |
| 114                 | DR16               | DR17          | DR18          | DR4               | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       |   |
| 117                 |                    | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       |   |
| 120                 |                    | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           | DQ7                | DQ4                |       | DQA1*04:01,<br>DQA1*05:05,  |
| 145                 |                    | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       |   |
| 149                 |                    | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          | DR1403             | DR1404             | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       |   |
| 162                 | DR16               | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       |   |
| 185                 |                    | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          | DR1403             | DR1404             | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       | A*66:02,<br>DQA1*04,05,06   |
| 194                 | DR16               | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          | DR1403             | DR1404             | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       |   |
| 195                 |                    | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           | DQ7                | DQ4                |       | DQA1*04:01, 05:01,<br>05:05, 06:01  |
| 206                 |                    | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           |                    |                    |       | DQA1*05, 06   |
| 232                 | DR16               | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           |               | DQ6         | DQ2           | DQ7                | DQ4                |       |   |
| 284                 | DR16               | DR17          | DR18          |                   | DR11          | DR12          | DR13          | DR14          |                    |                    | DR7           | DR8           | DR9           | DR52          |             | DQ2           | DQ7                | DQ4                |       | DQA1*04:01,<br>DQA1*05,<br>DQB1*06:09   |
| 361                 | DR16               |               |               |                   |               |               |               |               |                    |                    |               |               |               |               |             |               |                    |                    |       |   |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| Number | 12 | 23 | 23 | 2  | 23 | 23 | 23 | 22 | 4  | 4  | 23 | 23 | 23 | 21 | 1  | 23 | 7  | 5  |  |  |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |  |  |

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 302/2018

DESPATCHED ON 17 APRIL 2018

**Unacceptable antigen listing - NOT ASSESSED**

| Consensus % reported | A1 Present 95.8% | A23 Present 95.8% | A24 Present 95.8% | A2403 Absent 4.2% | A25 lot Assessed 62.5% | A11 lot Assessed 45.8% | A29 Absent 4.2% | A36 Present 91.7% | A43 Present 95.8% | A80 Present 91.7% | B8 Present 79.2% | B44 lot Assessed 58.3% | B45 lot Assessed 62.5% | B76 Present 95.8% | B59 Absent 4.2% | B82 lot Assessed 62.5% | Cw17 Not Assessed 29.2% | DR1 Absent 4.2% | DR15 Absent 4.2% | DR16 Absent 4.2% |
|----------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------------|-----------------|-------------------|-------------------|-------------------|------------------|------------------------|------------------------|-------------------|-----------------|------------------------|-------------------------|-----------------|------------------|------------------|
| Lab no.              | spec A1          | spec A23          | spec A24          | spec A2403        | spec A25               | spec A11               | spec            | spec A36          | spec A43          | spec A80          | spec B8          | spec B44               | spec B45               | spec B76          | spec            | spec B82               | spec X                  | spec            | spec             | spec             |
| 11                   | A1               | A23               | A24               |                   |                        |                        |                 | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               |                 |                        |                         |                 |                  |                  |
| 14                   | A1               | A23               | A24               |                   |                        |                        |                 | A36               | A43               | A80               | B8               |                        |                        | B76               |                 |                        |                         |                 |                  |                  |
| 19                   | A1               | A23               | A24               |                   | A25                    | A11                    |                 | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               |                 | B82                    | Cw17                    |                 |                  |                  |
| 20                   | A1               | A23               | A24               |                   | A25                    | A11                    |                 | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               |                 | B82                    |                         |                 |                  |                  |
| 23                   | A1               | A23               | A24               |                   |                        |                        |                 | A36               | A43               | A80               |                  |                        |                        | B76               |                 |                        |                         |                 |                  |                  |
| 24                   | A1               | A23               | A24               |                   | A25                    | A11                    | A29             | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               |                 | B82                    | Cw17                    |                 |                  |                  |
| 41                   | A1               | A23               | A24               |                   | A25                    |                        |                 | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               |                 | B82                    |                         |                 |                  |                  |
| 48                   | A1               | A23               | A24               |                   |                        |                        |                 | A36               | A43               | A80               | B8               |                        |                        | B76               |                 |                        |                         |                 |                  |                  |
| 58                   | A1               | A23               | A24               |                   | A25                    | A11                    |                 | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               |                 | B82                    | Cw17                    |                 |                  |                  |
| 62                   | A1               | A23               | A24               |                   | A25                    | A11                    |                 | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               |                 | B82                    | Cw17                    |                 |                  |                  |
| 112                  | A1               | A23               | A24               |                   |                        |                        |                 |                   | A43               | A80               |                  |                        |                        | B76               |                 |                        |                         |                 |                  |                  |
| 114                  | A1               | A23               | A24               |                   | A25                    | A11                    |                 | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               | B59             | B82                    | Cw17                    |                 |                  |                  |
| 117                  | A1               | A23               | A24               |                   |                        |                        |                 | A36               | A43               | A80               | B8               |                        |                        | B76               |                 |                        |                         |                 |                  |                  |
| 120                  | A1               | A23               | A24               |                   |                        |                        |                 | A36               | A43               | A80               | B8               |                        |                        | B76               |                 | B82                    |                         |                 |                  |                  |
| 145                  | A1               | A23               | A24               |                   | A25                    |                        |                 | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               |                 | B82                    |                         |                 |                  |                  |
| 149                  | A1               | A23               | A24               |                   |                        |                        |                 | A36               | A43               | A80               |                  | B44                    | B45                    | B76               |                 |                        |                         |                 |                  |                  |
| 162                  | A1               | A23               | A24               |                   | A25                    | A11                    |                 | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               |                 | B82                    |                         |                 |                  |                  |
| 185                  | A1               | A23               | A24               |                   |                        |                        |                 | A36               | A43               | A80               |                  |                        |                        | B76               |                 |                        |                         |                 |                  |                  |
| 194                  | A1               | A23               | A24               |                   | A25                    | A11                    |                 | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               |                 |                        |                         |                 |                  |                  |
| 195                  | A1               | A23               | A24               |                   |                        |                        |                 | A36               | A43               | A80               | B8               |                        |                        | B76               |                 |                        |                         |                 |                  |                  |
| 206                  | A1               | A23               | A24               |                   | A25                    |                        |                 | A36               | A43               | A80               | B8               |                        | B45                    | B76               |                 | B82                    | Cw17                    |                 |                  |                  |
| 232                  | A1               | A23               | A24               |                   | A25                    | A11                    |                 | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               |                 | B82                    |                         |                 |                  |                  |
| 284                  | A1               | A23               | A24               |                   | A25                    | A11                    |                 | A36               | A43               | A80               | B8               | B44                    | B45                    | B76               |                 | B82                    | Cw17                    | DR1             | DR15             | DR16             |
| 361                  |                  |                   |                   |                   | A25                    |                        |                 |                   |                   |                   |                  |                        |                        |                   |                 | B82                    |                         |                 |                  |                  |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Number | 23 | 23 | 23 | 1  | 15 | 11 | 1  | 22 | 23 | 22 | 19 | 14 | 15 | 23 | 1  | 15 | 7  | 1  | 1  | 1  |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 302/2018

DESPATCHED ON 17 APRIL 2018

**Unacceptable antigen listing - NOT ASSESSED**

| Consensus % reporte | DR17<br>Absent<br>4.2% | DR4<br>Present<br>95.8% | DR14<br>Absent<br>4.2% | DR7<br>Present<br>91.7% | DR9<br>Not Assessec<br>41.7% | DR51<br>Absent<br>4.2% | DQ5<br>Not Assessec<br>62.5% | DQ6<br>Absent<br>4.2% | DQ2<br>Present<br>95.8% | Other   | Comments                         |
|---------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------------|------------------------|------------------------------|-----------------------|-------------------------|---|----------------------------------|
| Lab no.             | spec                   | spec                    | spec                   | spec                    | spec                         | spec                   | spec                         | spec                  | spec                    |   |                                  |
| 11                  |                        | DR4                     |                        | DR7                     | DR9                          |                        | DQ5                          |                       | DQ2                     | DP 1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20  |                                  |
| 14                  |                        | DR4                     |                        | DR7                     |                              |                        | DQ5                          |                       | DQ2                     |   |                                  |
| 19                  |                        | DR4                     |                        | DR7                     |                              |                        |                              |                       | DQ2                     | DP 1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20  | Not list A24 as allele specific. |
| 20                  |                        | DR4                     |                        | DR7                     | DR9                          |                        |                              |                       | DQ2                     |   |                                  |
| 23                  |                        | DR4                     |                        | DR7                     |                              |                        | DQ5                          | DQ6                   | DQ2                     |   |                                  |
| 24                  |                        | DR4                     |                        |                         | DR9                          |                        |                              |                       | DQ2                     | DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20.  |                                  |
| 41                  |                        | DR4                     |                        | DR7                     |                              |                        | DQ5                          |                       | DQ2                     |   |                                  |
| 48                  |                        | DR4                     |                        | DR7                     |                              |                        |                              |                       | DQ2                     | A*24:02, DPB1*01, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20.                             |                                  |
| 58                  |                        | DR4                     |                        | DR7                     | DR9                          |                        | DQ5                          |                       | DQ2                     | DPB   |                                  |
| 62                  |                        | DR4                     |                        | DR7                     |                              |                        |                              |                       | DQ2                     | DP 1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20.   |                                  |
| 112                 |                        | DR4                     |                        | DR7                     |                              |                        |                              |                       | DQ2                     |   |                                  |
| 114                 |                        | DR4                     | DR14                   | DR7                     | DR9                          |                        | DQ5                          |                       | DQ2                     |   |                                  |
| 117                 |                        | DR4                     |                        | DR7                     |                              |                        |                              |                       | DQ2                     |   |                                  |
| 120                 |                        | DR4                     |                        | DR7                     |                              |                        | DQ5                          |                       | DQ2                     | DP3, 19,20, 6, 5, 11, 1, 14, 9, 17, 13, 10  |                                  |
| 145                 |                        | DR4                     |                        | DR7                     |                              |                        | DQ5                          |                       | DQ2                     |   |                                  |
| 149                 |                        | DR4                     |                        | DR7                     |                              |                        | DQ5                          |                       | DQ2                     |   |                                  |
| 162                 |                        | DR4                     |                        | DR7                     | DR9                          |                        | DQ5                          |                       | DQ2                     |   |                                  |
| 185                 |                        | DR4                     |                        | DR7                     | DR9                          |                        |                              |                       | DQ2                     | DRB1*01:01, 03:01, 05:01, 06:01, 09:01, 11:01, 13:01, 14:01, 17:01, 19:01             |                                  |
| 194                 |                        | DR4                     |                        | DR7                     | DR9                          |                        | DQ5                          |                       | DQ2                     | All positive DPB1   |                                  |
| 195                 |                        | DR4                     |                        | DR7                     |                              |                        | DQ5                          |                       | DQ2                     | DP*01:01, 03:01, 05:01, 06:01, 09:01, 10:01, 11:01, 13:01, 14:01, 17:01, 19:01, 20:01 |                                  |
| 206                 |                        | DR4                     |                        | DR7                     |                              |                        | DQ5                          |                       | DQ2                     | DP1, 3, 5, 6, 9, 10, 11, 13, 14, 17, 19, 20   |                                  |
| 232                 |                        | DR4                     |                        | DR7                     | DR9                          |                        | DQ5                          |                       | DQ2                     |   |                                  |
| 284                 | DR17                   | DR4                     |                        | DR7                     | DR9                          | DR51                   | DQ5                          |                       | DQ2                     | DQA1*05, DRB1*14:02, DQB1*06:01   |                                  |

361  
Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|
| Number | 1  | 23 | 1  | 22 | 10 | 1  | 15 | 1  | 23 |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 303/2018

DESPATCHED ON 17 APRIL 2018

**Unacceptable antigen listing - NOT ASSESSED**

|                      | A34                   | A66              | B7                    | B13                   | B55                   | B27                   | B2708                 | B60              | B61              | B41                   | B42                   |
|----------------------|-----------------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|-----------------------|-----------------------|
| Consensus % reported | Not Assessed<br>37.5% | Present<br>87.5% | Not Assessed<br>62.5% | Not Assessed<br>62.5% | Not Assessed<br>25.0% | Not Assessed<br>70.8% | Not Assessed<br>29.2% | Present<br>75.0% | Present<br>75.0% | Not Assessed<br>50.0% | Not Assessed<br>37.5% |
| Lab no.              | spec                  | spec             | spec                  | spec                  | spec                  | spec                  | spec                  | spec             | spec             | spec                  | spec                  |
| 11                   | A34                   | A66              | B7                    | B13                   | B55                   | B27                   |                       | B60              | B61              | B41                   | B42                   |
| 14                   | A34                   | A66              |                       |                       |                       |                       |                       |                  |                  |                       |                       |
| 19                   |                       | A66              | B7                    | B13                   | B55                   | B27                   |                       | B60              | B61              | B41                   | B42                   |
| 20                   |                       | A66              |                       |                       |                       |                       | B2708                 |                  |                  |                       |                       |
| 23                   |                       | A66              | B7                    | B13                   | B55                   | B27                   |                       | B60              | B61              | B41                   | B42                   |
| 24                   | A34                   | A66              | B7                    | B13                   | B55                   | B27                   |                       | B60              | B61              | B41                   | B42                   |
| 41                   |                       | A66              | B7                    | B13                   |                       | B27                   | B2708                 | B60              | B61              | B41                   |                       |
| 48                   |                       | A66              | B7                    | B13                   |                       | B27                   | B2708                 | B60              | B61              | B41                   |                       |
| 58                   | A34                   | A66              | B7                    | B13                   | B55                   | B27                   | B2708                 | B60              | B61              | B41                   | B42                   |
| 62                   | A34                   | A66              | B7                    | B13                   |                       | B27                   |                       | B60              | B61              | B41                   | B42                   |
| 112                  |                       |                  |                       |                       |                       |                       |                       |                  |                  |                       |                       |
| 114                  |                       | A66              | B7                    | B13                   |                       | B27                   |                       | B60              | B61              | B41                   |                       |
| 117                  |                       | A66              |                       |                       |                       |                       |                       |                  |                  |                       |                       |
| 120                  |                       | A66              |                       |                       |                       | B27                   |                       | B60              | B61              |                       |                       |
| 145                  |                       | A66              | B7                    | B13                   |                       | B27                   |                       | B60              | B61              |                       |                       |
| 149                  |                       | A66              | B7                    | B13                   |                       | B27                   | B2708                 | B60              | B61              |                       |                       |
| 162                  |                       | A66              | B7                    | B13                   |                       | B27                   | B2708                 | B60              | B61              | B41                   | B42                   |
| 185                  |                       |                  |                       |                       |                       |                       |                       |                  |                  |                       |                       |
| 194                  | A34                   | A66              | B7                    | B13                   |                       | B27                   | B2708                 | B60              | B61              | B41                   | B42                   |
| 195                  | A34                   | A66              |                       |                       |                       | B27                   |                       | B60              | B61              |                       |                       |
| 206                  | A34                   | A66              |                       |                       |                       |                       |                       |                  |                  |                       |                       |
| 232                  | A34                   | A66              |                       | B13                   |                       | B27                   |                       | B60              | B61              |                       |                       |
| 284                  |                       | A66              | B7                    | B13                   | B55                   | B27                   |                       | B60              | B61              | B41                   | B42                   |
| 361                  |                       |                  | B7                    |                       |                       |                       |                       | B60              | B61              |                       |                       |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|
| Number | 9  | 21 | 15 | 15 | 6  | 17 | 7  | 18 | 18 | 12 | 9  |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 303/2018

DESPATCHED ON 17 APRIL 2018

**Unacceptable antigen listing - NOT ASSESSED**

| Consensus % reported | B48<br>Not Assessed<br>25.0% | B67<br>Not Assessed<br>45.8% | B73<br>Absent<br>4.2% | B81<br>Present<br>75.0% | DR4<br>Not Assessed<br>54.2% | DQ7<br>Present<br>95.8% | DQ8<br>Present<br>95.8% | DQ9<br>Present<br>95.8% | Other                  | Comments |
|----------------------|------------------------------|------------------------------|-----------------------|-------------------------|------------------------------|-------------------------|-------------------------|-------------------------|------------------------|----------|
| Lab no.              | spec                         | spec                         | spec                  | spec                    | spec                         | spec                    | spec                    | spec                    |                        |          |
| 11                   | B48                          | B67                          |                       | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 14                   |                              |                              |                       |                         |                              | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 19                   | B48                          | B67                          |                       | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 20                   |                              |                              |                       |                         |                              | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 23                   |                              | B67                          |                       | B81                     |                              | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 24                   | B48                          | B67                          |                       | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 41                   |                              |                              |                       | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 48                   |                              | B67                          |                       | B81                     |                              | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 58                   | B48                          | B67                          |                       | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     | DPB14                  |          |
| 62                   |                              | B67                          |                       | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 112                  |                              |                              |                       |                         |                              | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 114                  | B48                          | B67                          |                       | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 117                  |                              |                              |                       |                         |                              | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 120                  |                              |                              |                       | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 145                  |                              |                              |                       | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 149                  |                              |                              |                       | B81                     |                              | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 162                  |                              | B67                          |                       | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 185                  |                              |                              |                       |                         |                              | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 194                  |                              | B67                          |                       | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 195                  |                              |                              |                       | B81                     |                              | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 206                  |                              |                              |                       |                         |                              | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 232                  |                              |                              |                       | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     |                        |          |
| 284                  | B48                          | B67                          | B73                   | B81                     | DR4                          | DQ7                     | DQ8                     | DQ9                     | A*34:01,<br>DPB1*14:01 |          |
| 361                  |                              |                              |                       | B81                     |                              |                         |                         |                         |                        |          |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|
| Number | 6  | 11 | 1  | 18 | 13 | 23 | 23 | 23 |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

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**Unacceptable antigen listing - NOT ASSESSED**

| Lab no.            | A25         | A26         | A34         | A66         | A11         | A29         | A30         | A31         | A32           | A33         | A68         | A69         | A36         | A43         | B51           | B5102              | B5103       | B52           | B44           |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|---------------|--------------------|-------------|---------------|---------------|
| Consent % reported | Absent 4.2% | Absent 4.2% | Absent 4.2% | Absent 4.2% | Absent 4.2% | Absent 4.2% | Absent 4.2% | Absent 4.2% | Present 75.0% | Absent 4.2% | Absent 4.2% | Absent 4.2% | Absent 4.2% | Absent 4.2% | Present 87.5% | Not Assessed 41.7% | Absent 4.2% | Present 91.7% | Present 79.2% |
| Lab no.            | spec        | spec        | spec        | spec        | spec        | spec        | spec        | spec        | spec          | spec        | spec        | spec        | spec        | spec        | spec          | spec               | spec        | spec          | spec          |
| 11                 |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           | B5102              |             | B52           | B44           |
| 14                 |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           | B5102              |             | B52           | B44           |
| 19                 |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           |                    |             | B52           | B44           |
| 20                 |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           |                    |             | B52           | B44           |
| 23                 |             |             |             |             |             |             |             |             |               |             |             |             |             |             | B51           |                    |             | B52           |               |
| 24                 | A25         | A26         | A34         | A66         | A11         | A29         | A30         | A31         |               | A33         | A68         | A69         | A36         | A43         |               |                    |             |               |               |
| 41                 |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           | B5102              |             | B52           | B44           |
| 48                 |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           | B5102              |             | B52           | B44           |
| 58                 |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           |                    |             | B52           | B44           |
| 62                 |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           |                    |             | B52           | B44           |
| 112                |             |             |             |             |             |             |             |             |               |             |             |             |             |             | B51           |                    |             | B52           |               |
| 114                |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           | B5102              |             | B52           | B44           |
| 117                |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           | B5102              |             | B52           | B44           |
| 120                |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           |                    |             | B52           | B44           |
| 145                |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           |                    |             | B52           | B44           |
| 149                |             |             |             |             |             |             |             |             |               |             |             |             |             |             | B51           |                    |             | B52           | B44           |
| 162                |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           | B5102              |             | B52           | B44           |
| 185                |             |             |             |             |             |             |             |             |               |             |             |             |             |             |               | B5102              |             | B52           |               |
| 194                |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           | B5102              | B5103       | B52           | B44           |
| 195                |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           | B5102              |             | B52           | B44           |
| 206                |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           |                    |             | B52           | B44           |
| 232                |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           |                    |             | B52           | B44           |
| 284                |             |             |             |             |             |             |             |             | A32           |             |             |             |             |             | B51           |                    |             | B52           | B44           |

361  
Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

| Number | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 18 | 1  | 1  | 1  | 1  | 1  | 21 | 10 | 1  | 22 | 19 |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

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|                    | B45           | B13           | B62           | B63           | B75           | B76                | B77           | B38           | B57           | B58           | B49           | B50           | B54         | B55         | B56           | B35           | B37                | B60           |
|--------------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|-------------|---------------|---------------|--------------------|---------------|
| Consent % reported | Present 79.2% | Present 87.5% | Present 91.7% | Present 95.8% | Present 83.3% | Not Assessed 25.0% | Present 91.7% | Present 83.3% | Present 83.3% | Present 83.3% | Present 91.7% | Present 91.7% | Absent 4.2% | Absent 4.2% | Present 91.7% | Present 79.2% | Not Assessed 41.7% | Present 75.0% |
| Lab no.            | spec          | spec          | spec          | spec          | spec          | spec               | spec          | spec          | spec          | spec          | spec          | spec          | spec        | spec        | spec          | spec          | spec               | spec          |
| 11                 | B45           | B13           | B62           | B63           | B75           | B76                | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           | B37                | B60           |
| 14                 | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           |                    | B60           |
| 19                 | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           | B37                | B60           |
| 20                 | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           |                    | B60           |
| 23                 |               | B13           | B62           | B63           | B75           | B76                | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           |               |                    |               |
| 24                 |               | B13           |               | B63           |               |                    |               |               |               |               |               |               |             |             |               |               |                    |               |
| 41                 | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           |                    |               |
| 48                 | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           | B37                | B60           |
| 58                 | B45           | B13           | B62           | B63           | B75           | B76                | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           | B37                | B60           |
| 62                 | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           |                    | B60           |
| 112                |               |               | B62           | B63           |               |                    | B77           |               |               |               | B49           | B50           |             |             | B56           |               |                    |               |
| 114                | B45           | B13           | B62           | B63           | B75           | B76                | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           | B37                | B60           |
| 117                | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           |                    | B60           |
| 120                | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           |                    | B60           |
| 145                | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           |                    | B60           |
| 149                |               |               | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           |                    | B60           |
| 162                | B45           | B13           | B62           | B63           | B75           | B76                | B77           | B38           | B57           | B58           | B49           | B50           |             | B55         | B56           | B35           | B37                | B60           |
| 185                |               |               | B62           | B63           |               |                    | B77           |               |               |               | B49           | B50           | B54         |             | B56           |               |                    |               |
| 194                | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           | B37                | B60           |
| 195                | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           |                    | B60           |
| 206                | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           | B37                | B60           |
| 232                | B45           | B13           | B62           | B63           | B75           |                    | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           | B37                | B60           |
| 284                | B45           | B13           | B62           | B63           | B75           | B76                | B77           | B38           | B57           | B58           | B49           | B50           |             |             | B56           | B35           | B37                | B60           |
| 361                | B45           | B13           |               |               |               |                    |               |               |               |               |               |               |             |             |               |               |                    |               |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Number | 19 | 21 | 22 | 23 | 20 | 6  | 22 | 20 | 20 | 20 | 22 | 22 | 1  | 1  | 22 | 19 | 10 | 18 |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |



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|                    | B61           | B41           | B46                | B47                | B53           | B59           | B71           | B72           | B78                | Cw1         | Cw9         | Cw10        | Cw5                | Cw12        | DR15          | DR16               |
|--------------------|---------------|---------------|--------------------|--------------------|---------------|---------------|---------------|---------------|--------------------|-------------|-------------|-------------|--------------------|-------------|---------------|--------------------|
| Consent % reported | Present 79.2% | Present 79.2% | Not Assessed 25.0% | Not Assessed 62.5% | Present 91.7% | Present 91.7% | Present 91.7% | Present 87.5% | Not Assessed 70.8% | Absent 4.2% | Absent 4.2% | Absent 4.2% | Not Assessed 12.5% | Absent 4.2% | Present 83.3% | Not Assessed 70.8% |
| Lab no.            | spec          | spec          | spec               | spec               | spec          | spec          | spec          | spec          | spec               | spec        | spec        | spec        | spec               | spec        | spec          | spec               |
| 11                 | B61           | B41           | B46                | B47                | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          | DR16               |
| 14                 | B61           | B41           |                    |                    | B53           | B59           | B71           | B72           |                    |             |             |             |                    |             |               |                    |
| 19                 | B61           | B41           |                    | B47                | B53           | B59           | B71           | B72           | B78                |             |             |             | Cw5                |             | DR15          | DR16               |
| 20                 | B61           | B41           |                    | B47                | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          | DR16               |
| 23                 |               |               |                    |                    | B53           | B59           | B71           | B72           |                    |             |             |             |                    |             |               |                    |
| 24                 |               |               |                    |                    |               |               |               |               |                    | Cw1         |             |             |                    | Cw12        |               |                    |
| 41                 | B61           | B41           |                    |                    | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          | DR16               |
| 48                 | B61           | B41           | B46                | B47                | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          | DR16               |
| 58                 | B61           | B41           | B46                | B47                | B53           | B59           | B71           | B72           | B78                |             |             |             | Cw5                |             | DR15          | DR16               |
| 62                 | B61           | B41           |                    | B47                | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          | DR16               |
| 112                |               |               |                    |                    | B53           | B59           | B71           |               |                    |             |             |             |                    |             | DR15          | DR16               |
| 114                | B61           | B41           | B46                | B47                | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          | DR16               |
| 117                | B61           | B41           |                    |                    | B53           | B59           | B71           | B72           |                    |             |             |             |                    |             | DR15          |                    |
| 120                | B61           | B41           |                    |                    | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          |                    |
| 145                | B61           | B41           |                    | B47                | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          | DR16               |
| 149                | B61           | B41           |                    | B47                | B53           | B59           | B71           | B72           |                    |             |             |             |                    |             | DR15          | DR16               |
| 162                | B61           | B41           | B46                | B47                | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          | DR16               |
| 185                |               |               |                    |                    | B53           | B59           | B71           | B72           |                    |             |             |             |                    |             | DR15          | DR16               |
| 194                | B61           | B41           |                    | B47                | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          | DR16               |
| 195                | B61           | B41           |                    |                    | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          |                    |
| 206                | B61           |               |                    | B47                | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          | DR16               |
| 232                | B61           | B41           |                    | B47                | B53           | B59           | B71           | B72           | B78                |             |             |             |                    |             | DR15          | DR16               |
| 284                | B61           | B41           | B46                | B47                | B53           | B59           | B71           | B72           | B78                |             | Cw9         | Cw10        | Cw5                |             | DR15          | DR16               |
| 361                |               | B41           |                    | B47                |               |               |               | B78           |                    |             |             |             |                    |             |               |                    |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Number | 19 | 19 | 6  | 15 | 22 | 22 | 22 | 21 | 17 | 1  | 1  | 1  | 3  | 1  | 20 | 17 |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

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**Unacceptable antigen listing - NOT ASSESSED**

| Consent % reported | DR4<br>Not Assessed<br>8.3% | DR12<br>Absent<br>4.2% | DR7<br>Not Assessed<br>12.5% | DR9<br>Not Assessed<br>16.7% | DR10<br>Present<br>87.5% | DR52<br>Not Assessed<br>8.3% | DR53<br>Not Assessed<br>70.8% | DQ5<br>Present<br>91.7% | DQ6<br>Present<br>91.7% | DQ2<br>Absent<br>4.2% | DQ4<br>Present<br>87.5% | Other                              | Comments                                       |
|--------------------|-----------------------------|------------------------|------------------------------|------------------------------|--------------------------|------------------------------|-------------------------------|-------------------------|-------------------------|-----------------------|-------------------------|------------------------------------|--|
| Lab no.            | spec                        | spec                   | spec                         | spec                         | spec                     | spec                         | spec                          | spec                    | spec                    | spec                  | spec                    |                                    |  |
| 11                 |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 14                 |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 19                 |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 20                 |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 23                 |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 24                 |                             | DR12                   | DR7                          | DR9                          |                          | DR52                         |                               |                         |                         | DQ2                   |                         |                                    | List DR52 unless it was antibody against self. |
| 41                 |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 48                 |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 58                 |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    | DPB  |
| 62                 |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 112                |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 114                |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 117                |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 120                |                             |                        |                              |                              | DR10                     | DR52                         |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 145                |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 149                |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 162                |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 185                |                             |                        |                              |                              | DR10                     |                              | DR53                          | DQ5                     | DQ6                     |                       | DQ4                     | DQA1*01                            |  |
| 194                |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 195                | DR4                         |                        | DR7                          | DR9                          | DR10                     |                              | DR53                          | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 206                |                             |                        |                              |                              | DR10                     |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 232                |                             |                        |                              | DR9                          |                          |                              |                               | DQ5                     | DQ6                     |                       | DQ4                     |                                    |  |
| 284                | DR4                         |                        | DR7                          | DR9                          | DR10                     |                              | DR53                          | DQ5                     | DQ6                     |                       | DQ4                     | DPB1*01:01, DPB1*05:01, DPB1*06:01 |  |
| 361                |                             |                        |                              |                              |                          |                              |                               |                         |                         |                       |                         | DPB1*17:01                         |  |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------|----|----|----|----|----|----|----|----|----|----|----|--|--|
| Number | 2  | 1  | 3  | 4  | 21 | 2  | 17 | 22 | 22 | 1  | 21 |  |  |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |  |  |

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

SOLID PHASE ASSAY COMPLEMENT FIXING ANTIBODIES 305/2018

DESPATCHED ON 17 APRIL 2018

**Unacceptable antigen listing - NOT ASSESSED**

| Consensu % reporte | A24<br>Not Assessed<br>8.3% | A2403<br>Not Assessed<br>20.8% | A25<br>Present<br>91.7% | A26<br>Present<br>91.7% | A34<br>Present<br>91.7% | A66<br>Present<br>91.7% | A11<br>Present<br>83.3% | A29<br>Present<br>75.0% | A30<br>Present<br>79.2% | A31<br>Present<br>75.0% | A32<br>Absent<br>4.2% | A33<br>Present<br>79.2% | A68<br>Present<br>91.7% | A69<br>Present<br>83.3% | A36<br>Not Assessed<br>25.0% | A43<br>Present<br>91.7% | B51<br>Absent<br>4.2% |
|--------------------|-----------------------------|--------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------|-------------------------|-------------------------|-------------------------|------------------------------|-------------------------|-----------------------|
| Lab no.            | spec                        | spec                           | spec                    | spec                    | spec                    | spec                    | spec                    | spec                    | spec                    | spec                    | spec                  | spec                    | spec                    | spec                    | spec                         | spec                    | spec                  |
| 11                 |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     | A36                          | A43                     |                       |
| 14                 |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     |                         |                       | A33                     | A68                     | A69                     |                              | A43                     |                       |
| 19                 |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     |                              | A43                     |                       |
| 20                 |                             | A2403                          | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     | A36                          | A43                     |                       |
| 23                 |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     |                         |                         |                         |                       |                         | A68                     | A69                     |                              | A43                     |                       |
| 24                 | A24                         | A2403                          |                         |                         |                         |                         |                         |                         |                         |                         | A32                   |                         |                         |                         |                              |                         | B51                   |
| 41                 |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     |                              | A43                     |                       |
| 48                 |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     |                              | A43                     |                       |
| 58                 | A24                         |                                | A25                     | A26                     | A34                     | A66                     |                         | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     | A36                          | A43                     |                       |
| 62                 |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     |                              | A43                     |                       |
| 112                |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     |                         |                         |                         |                       | A33                     | A68                     |                         |                              | A43                     |                       |
| 114                |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     |                              | A43                     |                       |
| 117                |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     |                         |                              | A43                     |                       |
| 120                |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     |                              | A43                     |                       |
| 145                |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     |                              | A43                     |                       |
| 149                |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     |                         |                         |                         |                       |                         | A68                     | A69                     |                              | A43                     |                       |
| 162                |                             | A2403                          | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     | A36                          | A43                     |                       |
| 185                |                             |                                | A25                     | A26                     | A34                     | A66                     |                         |                         |                         |                         |                       |                         | A68                     |                         |                              | A43                     |                       |
| 194                |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     | A36                          | A43                     |                       |
| 195                |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     |                              | A43                     |                       |
| 206                |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     |                              | A43                     |                       |
| 232                |                             |                                | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     |                              | A43                     |                       |
| 284                |                             | A2403                          | A25                     | A26                     | A34                     | A66                     | A11                     | A29                     | A30                     | A31                     |                       | A33                     | A68                     | A69                     | A36                          | A43                     |                       |
| 361                |                             | A2403                          |                         |                         |                         |                         |                         |                         | A30                     | A31                     |                       |                         |                         | A69                     |                              |                         |                       |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Number | 2  | 5  | 22 | 22 | 22 | 22 | 20 | 18 | 19 | 18 | 1  | 19 | 22 | 20 | 6  | 22 | 1  |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

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DESPATCHED ON 17 APRIL 2018

**Unacceptable antigen listing - NOT ASSESSED**

|            | B52    | B44    | B45    | B13     | B62    | B63          | B75          | B76    | B77    | B38    | B57    | B58    | B49    | B50    | B55    | B56    | B35    | B37    | B60    |
|------------|--------|--------|--------|---------|--------|--------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Consensus  | Absent | Absent | Absent | Present | Absent | Not Assessed | Not Assessed | Absent | Absent | Absent | Absent | Absent | Absent | Absent | Absent | Absent | Absent | Absent | Absent |
| % reported | 4.2%   | 4.2%   | 4.2%   | 79.2%   | 4.2%   | 16.7%        | 8.3%         | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 4.2%   |
| Lab no.    | spec   | spec   | spec   | spec    | spec   | spec         | spec         | spec   | spec   | spec   | spec   | spec   | spec   | spec   | spec   | spec   | spec   | spec   | spec   |
| 11         |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 14         |        |        |        |         |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 19         |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 20         |        |        |        | B13     |        | B63          |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 23         |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 24         | B52    | B44    | B45    | B13     | B62    | B63          | B75          | B76    | B77    | B38    | B57    | B58    | B49    | B50    | B55    | B56    | B35    | B37    | B60    |
| 41         |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 48         |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 58         |        |        |        | B13     |        | B63          | B75          |        |        |        |        |        |        |        |        |        |        |        |        |
| 62         |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 112        |        |        |        |         |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 114        |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 117        |        |        |        |         |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 120        |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 145        |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 149        |        |        |        |         |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 162        |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 185        |        |        |        |         |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 194        |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 195        |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 206        |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 232        |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 284        |        |        |        | B13     |        | B63          |              |        |        |        |        |        |        |        |        |        |        |        |        |
| 361        |        |        |        | B13     |        |              |              |        |        |        |        |        |        |        |        |        |        |        |        |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Number | 1  | 1  | 1  | 19 | 1  | 4  | 2  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

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**Unacceptable antigen listing - NOT ASSESSED**

|            | B61    | B41    | B46    | B47    | B59    | B71          | B72    | B78    | Cw1          | Cw9    | Cw10   | Cw5    | Cw12   | DR15   | DR16   | DR17         | DR18         |
|------------|--------|--------|--------|--------|--------|--------------|--------|--------|--------------|--------|--------|--------|--------|--------|--------|--------------|--------------|
| Consensus  | Absent | Absent | Absent | Absent | Absent | Not Assessed | Absent | Absent | Not Assessed | Absent | Absent | Absent | Absent | Absent | Absent | Not Assessed | Not Assessed |
| % reported | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 8.3%         | 4.2%   | 4.2%   | 12.5%        | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 4.2%   | 8.3%         | 8.3%         |
| Lab no.    | spec   | spec   | spec   | spec   | spec   | spec         | spec   | spec   | spec         | spec   | spec   | spec   | spec   | spec   | spec   | spec         | spec         |

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361

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Number | 1  | 1  | 1  | 1  | 1  | 2  | 1  | 1  | 3  | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 2  |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

**UK NEQAS FOR H&I SCHEME 3 - HLA ANTIBODY IDENTIFICATION**

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DESPATCHED ON 17 APRIL 2018

**Unacceptable antigen listing - NOT ASSESSED**

|                      | DR11        | DR12               | DR13              | DR14        | DR7           | DR8         | DR9           | DR10        | DR52               | DR53        | DQ5         | DQ6         | DQ2           | DQ4         | Other                                   | Comments   |
|----------------------|-------------|--------------------|-------------------|-------------|---------------|-------------|---------------|-------------|--------------------|-------------|-------------|-------------|---------------|-------------|---|--|
| Consensus % reported | Absent 4.2% | Not Assessed 62.5% | Not Assessed 8.3% | Absent 4.2% | Present 91.7% | Absent 4.2% | Present 87.5% | Absent 4.2% | Not Assessed 54.2% | Absent 4.2% | Absent 4.2% | Absent 4.2% | Present 83.3% | Absent 4.2% |   |  |
| Lab no.              | spec        | spec               | spec              | spec        | spec          | spec        | spec          | spec        | spec               | spec        | spec        | spec        | spec          | spec        |   |  |
| 11                   |             | DR12               |                   |             | DR7           |             | DR9           |             | DR52               |             |             |             | DQ2           |             |   | DR52 allele specific, would only list as UAG is patient was DR52 negative. |
| 14                   |             |                    |                   |             | DR7           |             | DR9           |             | DR52               |             |             |             | DQ2           |             |   |  |
| 19                   |             | DR12               |                   |             | DR7           |             | DR9           |             |                    |             |             |             | DQ2           |             |   |  |
| 20                   |             | DR12               |                   |             | DR7           |             | DR9           |             |                    |             |             |             | DQ2           |             |   |  |
| 23                   |             |                    |                   |             | DR7           |             | DR9           |             | DR52               |             |             |             | DQ2           |             |   |  |
| 24                   |             |                    |                   |             |               |             |               | DR10        |                    | DR53        | DQ5         | DQ6         |               | DQ4         | DP1                                     |  |
| 41                   |             | DR12               |                   |             | DR7           |             | DR9           |             | DR52               |             |             |             | DQ2           |             |   |  |
| 48                   |             | DR12               |                   |             | DR7           |             | DR9           |             | DR52               |             |             |             | DQ2           |             |   |  |
| 58                   |             | DR12               |                   |             | DR7           |             | DR9           |             | DR52               |             |             |             | DQ2           |             | DRB3*01:01,<br>DRB3*03:01               |  |
| 62                   |             | DR12               |                   |             | DR7           |             | DR9           |             | DR52               |             |             |             | DQ2           |             |   |  |
| 112                  |             |                    |                   |             | DR7           |             | DR9           |             |                    |             |             |             |               |             |   |  |
| 114                  |             | DR12               |                   |             | DR7           | DR8         |               |             | DR52               |             |             |             | DQ2           |             |   |  |
| 117                  |             |                    |                   |             | DR7           |             | DR9           |             | DR52               |             |             |             |               |             |   |  |
| 120                  |             |                    |                   |             | DR7           |             | DR9           |             |                    |             |             |             | DQ2           |             | DRB*03:01,<br>DRB3*01:01,<br>DQB1*05:01 |  |
| 145                  |             | DR12               |                   |             | DR7           |             | DR9           |             | DR52               |             |             |             | DQ2           |             |   |  |
| 149                  |             |                    |                   |             | DR7           |             | DR9           |             | DR52               |             |             |             | DQ2           |             |   |  |
| 162                  |             | DR12               |                   |             | DR7           |             | DR9           |             |                    |             |             |             | DQ2           |             |   |  |
| 185                  |             |                    |                   |             | DR7           |             | DR9           |             | DR52               |             |             |             |               |             |   |  |
| 194                  |             | DR12               |                   |             | DR7           |             | DR9           |             |                    |             |             |             | DQ2           |             |   |  |
| 195                  | DR11        | DR12               | DR13              | DR14        | DR7           |             | DR9           |             | DR52               |             |             |             | DQ2           |             |   |  |
| 206                  |             | DR12               |                   |             | DR7           |             | DR9           |             |                    |             |             |             | DQ2           |             |   |  |
| 232                  |             | DR12               |                   |             | DR7           |             | DR9           |             |                    |             |             |             | DQ2           |             |   |  |
| 284                  |             | DR12               | DR13              |             | DR7           |             | DR9           |             |                    |             |             |             | DQ2           |             | DQB1*05:01,<br>DRB3*03:01               |  |
| 361                  |             |                    |                   |             |               |             |               |             |                    |             |             |             | DQ2           |             |   |  |

Technique : C = CDC; E = ELISA; F = Flow cytometry; L = Luminex; O = Other

|        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| Number | 1  | 15 | 2  | 1  | 22 | 1  | 21 | 1  | 13 | 1  | 1  | 1  | 20 | 1  |  |  |
| Total  | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |  |  |