

**UK NEQAS FOR H&I SCHEME 4A1i - Interpretive HLA Genotype**

ASSESSMENT TYPING RESULTS OF SAMPLE 4A1i 06/2017

DESPATCHED ON 13th June 2017

|                       | HLA-A1 | A3 | B8 | B39 | Bw4/6 Bw6 | Cw Cw7 | Cw Cw7/Blank | DR DR1 | DR DR17 3 | DR51/52/53 DR52 | DQ DQ2 | DQ DQ5 | Acceptable<br>Unacceptable |
|-----------------------|--------|----|----|-----|-----------|--------|--------------|--------|-----------|-----------------|--------|--------|----------------------------|
| <b>Result Summary</b> | 36     | 36 | 36 | 36  | 30        | 34     | 34           | 36     | 36        | 32              | 36     | 36     |                            |
| Number Acceptable     | 36     | 36 | 36 | 36  | 30        | 34     | 34           | 36     | 35        | 32              | 36     | 36     |                            |
| Number Unacceptable   | 0      | 0  | 0  | 0   | 0         | 0      | 0            | 0      | 1         | 0               | 0      | 0      |                            |
| Number NT             | 0      | 0  | 0  | 0   | 0         | 0      | 0            | 0      | 0         | 0               | 0      | 0      |                            |

| Lab No. | Assessment HLA- |     |       |     |     |            |     | HLA- |   |   |        |       |    |    |    |          |            | Comments |      |    |
|---------|-----------------|-----|-------|-----|-----|------------|-----|------|---|---|--------|-------|----|----|----|----------|------------|----------|------|----|
|         | A               | B   | Bw4/6 | Cw  | DR  | DR51/52/53 | DQ  | A    | A | B | B      | Bw4/6 | Cw | Cw | DR | DR       | DR51/52/53 |          | DQ   | DQ |
|         | 36              | 36  | 30    | 34  | 36  | 32         | 36  |      |   |   |        |       |    |    |    |          |            |          |      |    |
| 6       | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  | 7  | 1  | 17       | 52         | 2        | 5    |    |
| 9       | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 11      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 12      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 14      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  | 7  | 1  | 17       | 52         | 2        | 5    |    |
| 15      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 20      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 23      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 24      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  | 7  | 1  | 17       | 52         | 2        | 5    |    |
| 26      | Yes             | Yes |       | Yes | Yes |            | Yes | 1    | 3 | 8 | 39     |       | 7  | 7  | 1  | 17       |            | 2        | 5    |    |
| 28      | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     |       | 7  | 7  | 1  | 17       | 52         | 2        | 5    |    |
| 38      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 39      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 41      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  | 7  | 1  | 17       | 52         | 2        | 5    |    |
| 42      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  | 7  | 1  | 17       | 52         | 2        | 5    |    |
| 45      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 48      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  | 7  | 1  | 17       | 52         | 2        | 5    |    |
| 54      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 58      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 62      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  | 7  | 1  | 17       | 52         | 2        | 5    |    |
| 112     | Yes             | Yes | Yes   |     | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     |    |    | 1  | 17       | 52         | 2        | 5    |    |
| 130     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 133     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39(16) | 6     | 7  |    | 1  | 17(3)    | 52         | 2        | 5(1) |    |
| 141     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 3        | 52         | 2        | 5    |    |
| 142     | Yes             | Yes |       | Yes | Yes |            | Yes | 1    | 3 | 8 | 39     | 6     |    |    | 1  | 17       | 52         | 2        | 5    |    |
| 156     | Yes             | Yes |       | Yes | Yes |            | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 164     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 207     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 220     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 245     | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 260     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39(16) | 6     | 7  | 7  | 1  | 17(3), 3 | 52         | 2        | 5(1) |    |
| 267     | Yes             | Yes | Yes   | Yes | Yes |            | Yes | 1    | 3 | 8 | 39     | 6     | 7  | 7  | 1  | 17       |            | 2        | 5    |    |
| 268     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  |    | 1  | 17       | 52         | 2        | 5    |    |
| 292     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  | 7  | 1  | 17       | 52         | 2        | 5    |    |
| 294     | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  | 7  | 1  | 17       | 52         | 2        | 5    |    |
| 323     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 3 | 8 | 39     | 6     | 7  | 7  | 1  | 17       | 52         | 2        | 5    |    |

**UK NEQAS FOR H&I SCHEME 4A1i - Interpretive HLA Genotype**

ASSESSMENT TYPING RESULTS OF SAMPLE 4A1i 07/2017

DESPATCHED ON 13th June 2017

|                       | HLA-A2 | A A30 | B B7 | B B51 | Bw4/6 Bw4/6 | Cw Cw7 | Cw Cw7/Blank | DR DR1 | DR DR13 | DR51/52/53 DR52 | DQ DQ5 | DQ DQ6 | Acceptable<br>Unacceptable |
|-----------------------|--------|-------|------|-------|-------------|--------|--------------|--------|---------|-----------------|--------|--------|----------------------------|
| <b>Result Summary</b> | 36     | 36    | 36   | 36    | 30          | 34     | 34           | 36     | 36      | 32              | 36     | 36     |                            |
| Number Acceptable     | 36     | 36    | 36   | 36    | 30          | 34     | 34           | 36     | 36      | 32              | 36     | 36     |                            |
| Number Unacceptable   | 0      | 0     | 0    | 0     | 0           | 0      | 0            | 0      | 0       | 0               | 0      | 0      |                            |
| Number NT             | 0      | 0     | 0    | 0     | 0           | 0      | 0            | 0      | 0       | 0               | 0      | 0      |                            |

| Lab No. | Assessment HLA- |     |       |     |     |            |     | HLA- |        |   |             |       |    |    |    |       |            | Comments |      |    |
|---------|-----------------|-----|-------|-----|-----|------------|-----|------|--------|---|-------------|-------|----|----|----|-------|------------|----------|------|----|
|         | A               | B   | Bw4/6 | Cw  | DR  | DR51/52/53 | DQ  | A    | A      | B | B           | Bw4/6 | Cw | Cw | DR | DR    | DR51/52/53 |          | DQ   | DQ |
|         | 36              | 36  | 30    | 34  | 36  | 32         | 36  |      |        |   |             |       |    |    |    |       |            |          |      |    |
| 6       | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    | 52         | 5        | 6    |    |
| 9       | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 11      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 12      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 14      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    | 52         | 5        | 6    |    |
| 15      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 20      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 23      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 24      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    | 52         | 5        | 6    |    |
| 26      | Yes             | Yes |       | Yes | Yes |            | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    |            | 5        | 6    |    |
| 28      | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          |       | 7  | 7  | 1  | 13    | 52         | 5        | 6    |    |
| 38      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 39      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 41      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    | 52         | 5        | 6    |    |
| 42      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    | 52         | 5        | 6    |    |
| 45      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 48      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    | 52         | 5        | 6    |    |
| 54      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 58      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 62      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    | 52         | 5        | 6    |    |
| 112     | Yes             | Yes | Yes   |     | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   |    | 1  | 13 | 52    | 5          | 6        |      |    |
| 130     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13(6) | 52         | 5        | 6    |    |
| 133     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30(19) | 7 | 51(5)       | 4/6   | 7  |    | 1  | 13    | 52         | 5(1)     | 6(1) |    |
| 141     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 142     | Yes             | Yes |       | Yes | Yes |            | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 156     | Yes             | Yes |       | Yes | Yes |            | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 164     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 207     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 220     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 245     | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    | 52         | 5        | 6    |    |
| 260     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30(19) | 7 | 51(5), 5105 | 4/6   | 7  | 7  | 1  | 13(6) | 52         | 5(1)     | 6(1) |    |
| 267     | Yes             | Yes | Yes   | Yes | Yes |            | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    |            | 5        | 6    |    |
| 268     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  |    | 1  | 13    | 52         | 5        | 6    |    |
| 292     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    | 52         | 5        | 6    |    |
| 294     | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    | 52         | 5        | 6    |    |
| 323     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 30     | 7 | 51          | 4/6   | 7  | 7  | 1  | 13    | 52         | 5        | 6    |    |

**UK NEQAS FOR H&I SCHEME 4A1i - Interpretive HLA Genotype**

1  
ASSESSMENT TYPING RESULTS OF SAMPLE 4A1i 08/2017

DESPATCHED ON 13th June 2017

| HLA-                  | A<br>A1 | A<br>A2 | B<br>B8 | B<br>B8/Blank | Bw4/6<br>Bw6 | Cw<br>Cw7 | Cw<br>Cw7/Blank | DR<br>DR17<br>DR3 | DR<br>DR17/Blank<br>DR3/Blank | DR51/52/53<br>DR52 | DQ<br>DQ2 | DQ<br>DQ2/Blank | Acceptable<br>Unacceptable |
|-----------------------|---------|---------|---------|---------------|--------------|-----------|-----------------|-------------------|-------------------------------|--------------------|-----------|-----------------|----------------------------|
| <b>Result Summary</b> | 36      | 36      | 36      | 36            | 30           | 34        | 34              | 36                | 36                            | 32                 | 36        | 36              |                            |
| Number Acceptable     | 35      | 35      | 35      | 35            | 29           | 33        | 33              | 34                | 34                            | 31                 | 35        | 35              |                            |
| Number Unacceptable   | 1       | 1       | 1       | 1             | 1            | 1         | 1               | 2                 | 2                             | 1                  | 1         | 1               |                            |
| Number NT             | 0       | 0       | 0       | 0             | 0            | 0         | 0               | 0                 | 0                             | 0                  | 0         | 0               |                            |

| Lab No. | Assessment HLA- |     |       |     |     |            |     | HLA- |    |   |    |       |    |    |          |          | Comments |            |    |    |
|---------|-----------------|-----|-------|-----|-----|------------|-----|------|----|---|----|-------|----|----|----------|----------|----------|------------|----|----|
|         | A               | B   | Bw4/6 | Cw  | DR  | DR51/52/53 | DQ  | A    | A  | B | B  | Bw4/6 | Cw | Cw | DR       | DR       |          | DR51/52/53 | DQ | DQ |
|         | 36              | 36  | 30    | 34  | 36  | 32         | 36  |      |    |   |    |       |    |    |          |          |          |            |    |    |
| 6       | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24 | 7 | 44 | 4/6   | 5  | 7  | 15       | 17       | 51; 52   | 2          | 6  |    |
| 9       | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 11      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 12      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 14      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 15      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 20      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 23      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 24      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 26      | Yes             | Yes |       | Yes | Yes |            | Yes | 1    | 2  | 8 |    |       | 7  |    | 17       |          |          | 2          |    |    |
| 28      | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 1    | 2  | 8 | 8  |       | 7  |    | 17       | 17       | 52       | 2          | 2  |    |
| 38      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 39      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 41      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 42      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 | 8  | 6     | 7  | 7  | 17       | 17       | 52       | 2          | 2  |    |
| 45      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 48      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 54      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 58      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 62      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 112     | Yes             | Yes | Yes   |     | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     |    |    | 17       |          | 52       | 2          |    |    |
| 130     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 133     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     |    |    | 17(3)    |          | 52       | 2          |    |    |
| 141     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 3        |          | 52       | 2          |    |    |
| 142     | Yes             | Yes |       | Yes | Yes |            | Yes | 1    | 2  | 8 |    | 6     |    |    | 17       |          | 52       | 2          |    |    |
| 156     | Yes             | Yes |       | Yes | Yes |            | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 164     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 207     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 220     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 245     | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 260     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 | 8  | 6     | 7  | 7  | 17(3), 3 | 17(3), 3 | 52       | 2          | 2  |    |
| 267     | Yes             | Yes | Yes   | Yes | Yes |            | Yes | 1    | 2  | 8 | 8  | 6     | 7  | 7  | 17       | 17       |          | 2          | 2  |    |
| 268     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 |    | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 292     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 | 8  | 6     | 7  |    | 17       |          | 52       | 2          |    |    |
| 294     | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 1    | 2  | 8 | 8  | 6     | 7  | 7  | 17       | 17       | 52       | 2          | 2  |    |
| 323     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1    | 2  | 8 | -  | 6     | 7  | -  | 17       | -        | 52       | 2          | -  |    |

**UK NEQAS FOR H&I SCHEME 4A1i - Interpretive HLA Genotype**

ASSESSMENT TYPING RESULTS OF SAMPLE 4A1i 09/2017

DESPATCHED ON 13th June 2017

| HLA-                  | A   | A  | B   | B     | Bw4/6 | Cw  | Cw   | DR   | DR         | DR51/52/53 | DQ  | DQ           | Acceptable |
|-----------------------|-----|----|-----|-------|-------|-----|------|------|------------|------------|-----|--------------|------------|
| A2                    | A24 | B7 | B44 | Bw4/6 | Cw5   | Cw7 | DR15 | DR17 | DR51, DR52 | DQ2        | DQ6 | Unacceptable |            |
| <b>Result Summary</b> | 36  | 36 | 36  | 36    | 30    | 34  | 34   | 36   | 36         | 32         | 36  | 36           |            |
| Number Acceptable     | 35  | 35 | 35  | 35    | 29    | 33  | 33   | 35   | 34         | 31         | 35  | 35           |            |
| Number Unacceptable   | 1   | 1  | 1   | 1     | 1     | 1   | 1    | 1    | 2          | 1          | 1   | 1            |            |
| Number NT             | 0   | 0  | 0   | 0     | 0     | 0   | 0    | 0    | 0          | 0          | 0   | 0            |            |

| Lab No. | Assessment HLA- |     |       |     |     |            |     | HLA- |       |    |        |       |    |    |       |        |            | Comments |         |    |
|---------|-----------------|-----|-------|-----|-----|------------|-----|------|-------|----|--------|-------|----|----|-------|--------|------------|----------|---------|----|
|         | A               | B   | Bw4/6 | Cw  | DR  | DR51/52/53 | DQ  | A    | A     | B  | B      | Bw4/6 | Cw | Cw | DR    | DR     | DR51/52/53 |          | DQ      | DQ |
|         | 36              | 36  | 30    | 34  | 36  | 32         | 36  | 24   | 32    | 52 | 61     | 4/6   | 12 | 15 | 14    | 14     | 52.        | 5        | 5       |    |
| 6       | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24   | 32    | 52 | 61     | 4/6   | 12 | 15 | 14    | 14     | 52.        | 5        | 5       |    |
| 9       | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 11      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 12      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 14      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 15      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 20      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 23      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 24      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 26      | Yes             | Yes |       | Yes | Yes |            | Yes | 2    | 24    | 7  | 44     |       | 5  | 7  | 15    | 17     |            | 2        | 6       |    |
| 28      | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     |       | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 38      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 39      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 41      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 42      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 45      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 48      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 54      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 58      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 62      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 112     | Yes             | Yes | Yes   |     | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   |    | 15 | 17    | 51, 52 | 2          | 6        |         |    |
| 130     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 133     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24(9) | 7  | 44(12) | 4/6   | 5  | 7  | 15(2) | 17(3)  | 51, 52     | 2        | 6(1)    |    |
| 141     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 3      | 51, 52     | 2        | 6       |    |
| 142     | Yes             | Yes |       | Yes | Yes |            | Yes | 2    | 24    | 7  | 44     | 4/6   |    | 15 | 17    | 51, 52 | 2          | 6        |         |    |
| 156     | Yes             | Yes |       | Yes | Yes |            | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 164     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 207     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 220     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 245     | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 260     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24(9) | 7  | 44(12) | 4/6   | 5  | 7  | 15(2) | 17(3)  | 51, 52     | 2        | 6(1), 1 |    |
| 267     | Yes             | Yes | Yes   | Yes | Yes |            | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     |            | 2        | 6       |    |
| 268     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 292     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 294     | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |
| 323     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 2    | 24    | 7  | 44     | 4/6   | 5  | 7  | 15    | 17     | 51, 52     | 2        | 6       |    |

**UK NEQAS FOR H&I SCHEME 4A1i - Interpretive HLA Genotype**

ASSESSMENT TYPING RESULTS OF SAMPLE 4A1i 10/2017

DESPATCHED ON 13th June 2017

| HLA-                  | A<br>A24 | A<br>A32 | B<br>B52 | B<br>B61 | Bw4/6<br>Bw4/6 | Cw<br>Cw12<br>CW4 | Cw<br>Cw15<br>Cw7 | DR<br>No consensus | DR | DR51/52/53<br>DR52 | DQ<br>DQ5 | DQ<br>DQ5/Blank | Acceptable<br>Unacceptable |
|-----------------------|----------|----------|----------|----------|----------------|-------------------|-------------------|--------------------|----|--------------------|-----------|-----------------|----------------------------|
| <b>Result Summary</b> | 36       | 36       | 36       | 36       | 30             | 34                | 34                | 36                 | 36 | 32                 | 36        | 36              |                            |
| Number Acceptable     | 35       | 35       | 35       | 35       | 29             | 32                | 32                | Not assessed       |    | 31                 | 35        | 35              |                            |
| Number Unacceptable   | 1        | 1        | 1        | 1        | 1              | 2                 | 2                 | Not assessed       |    | 1                  | 1         | 1               |                            |
| Number NT             | 0        | 0        | 0        | 0        | 0              | 0                 | 0                 | 0                  | 0  | 0                  | 0         | 0               |                            |

| Lab No. | Assessment HLA- |     |       |     |     |            |     | HLA-  |        |       |        |       |    |      |         |      |            | Comments |      |    |
|---------|-----------------|-----|-------|-----|-----|------------|-----|-------|--------|-------|--------|-------|----|------|---------|------|------------|----------|------|----|
|         | A               | B   | Bw4/6 | Cw  | DR  | DR51/52/53 | DQ  | A     | A      | B     | B      | Bw4/6 | Cw | Cw   | DR      | DR   | DR51/52/53 |          | DQ   | DQ |
|         | 36              | 36  | 30    | 34  | 36  | 32         | 36  |       |        |       |        |       |    |      |         |      |            |          |      |    |
| 6       | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 1     | 2      | 8     | 8      | 6     | 7  | 7    | 17      | 17   | 52         | 2        | 2    |    |
| 9       | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 11      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 12      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 1404    |      | 52         | 5        |      |    |
| 14      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 15      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 20      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 23      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 24      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 26      | Yes             | Yes |       | Yes | Yes |            | Yes | 24    | 32     | 52    | 61     |       | 12 | 15   | 1404    |      |            | 5        |      |    |
| 28      | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     |       | 12 | 15   | 14      | 14   | 52         | 5        | 5    |    |
| 38      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 39      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 1404    |      | 52         | 5        |      |    |
| 41      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 42      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      | 14   | 52         | 5        | 5    |    |
| 45      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 48      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 54      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 1404    |      | 52         | 5        |      |    |
| 58      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 62      | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 1404    |      | 52         | 5        |      |    |
| 112     | Yes             | Yes | Yes   |     | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   |    | 14   | 8       |      | 52         | 5        |      |    |
| 130     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 133     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24(9) | 32(19) | 52(5) | 61(40) | 4/6   | 12 | 15   | 1404    |      | 52         | 5(1)     |      |    |
| 141     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 1404/14 |      | 52         | 5        |      |    |
| 142     | Yes             | Yes |       | Yes | Yes |            | Yes | 24    | 32     | 52    | 61     | 4/6   |    | 14   |         |      | 52         | 5        |      |    |
| 156     | Yes             | Yes |       | Yes | Yes |            | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 164     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 207     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 1404    |      | 52         | 5        |      |    |
| 220     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 245     | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 260     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24(9) | 32(19) | 52(5) | 61(40) | 4/6   |    | 1404 | 1404    |      | 52         | 5(1)     | 5(1) |    |
| 267     | Yes             | Yes | Yes   | Yes | Yes |            | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 1404    | 1404 |            | 5        | 5    |    |
| 268     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      |      | 52         | 5        |      |    |
| 292     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 4  | 7    | 14      |      | 52         | 5        |      |    |
| 294     | Yes             | Yes |       | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      | 14   | 52         | 5        | 5    |    |
| 323     | Yes             | Yes | Yes   | Yes | Yes | Yes        | Yes | 24    | 32     | 52    | 61     | 4/6   | 12 | 15   | 14      | -    | 52         | 5        | -    |    |