

UK NEQAS for H&I Scheme 2B - Crossmatching by Flow Cytometry

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B02/2018 UK (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 27 FEBRU#

HLA PHENOTYPE OF BLOOD DONOR: HLA-A3, A26; B7, B45; Cw6, Cw7; DR4, DR-; DQ7, DQ8

| Summary of Results | | | | | | | | | | | | |
|-------------------------------------------|-----------------|---------------------|-----------------|-----------------|-----------------|---------------------|-----------------|-----------------|---------------|-------------|----------------------------------------|--|
| T-cells | | | | | B-cells | | | | | | | |
| Total tested | 20 | 20 | 20 | 20 | 16 | 15 | 16 | 16 | | | | |
| Positive | 20 | 12 | 20 | 3 | 16 | 5 | 16 | 2 | | | | |
| Negative | 0 | 7 | 0 | 17 | 0 | 10 | 0 | 14 | | | | |
| Equivocal | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| NT | 2 | 2 | 2 | 2 | 4 | 5 | 4 | 4 | | | | |
| % Positive | 100.0% | 60.0% | 100.0% | 15.0% | 100.0% | 33.3% | 100.0% | 12.5% | | | | |
| % Negative | 0.0% | 35.0% | 0.0% | 85.0% | 0.0% | 66.7% | 0.0% | 87.5% | | | | |
| % Equivocal | 0.0% | 5.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | | |
| Consensus | Positive | Not Assessed | Positive | Negative | Positive | Not Assessed | Positive | Negative | | | | |
| HLA Antibody Specificity (Defined By CDC) | A1 A11 DR15 | B12 | B7 | A1 | A1 A11 DR15 | B12 | B7 | A1 | | | | |
| T-cells | | | | | B-cells | | | | | | | |
| Lab No. | Serum 1 | Serum 2 | Serum 3 | Serum 4 | Serum 1 | Serum 2 | Serum 3 | Serum 4 | Date Received | Date Tested | Comments | |
| 9 | Positive | Negative | Positive | Negative | | | | | 28-Feb | 01-Mar | | |
| 11 | Positive | Positive | Positive | Negative | Positive | NT | Positive | Negative | 28-Feb | 28-Feb | | |
| 14 | Positive | Negative | Positive | Negative | Positive | Negative | Positive | Negative | 28-Feb | 28-Feb | | |
| 15 | Positive | Positive | Positive | Negative | Positive | Negative | Positive | Negative | 28-Feb | 28-Feb | | |
| 19 | Positive | Positive | Positive | Negative | Positive | Negative | Positive | Negative | 01-Mar | 01-Mar | | |
| 20 | Positive | Negative | Positive | Negative | Positive | Positive | Positive | Positive | 28-Feb | 28-Feb | | |
| 23 | Positive | Negative | Positive | Negative | Positive | Negative | Positive | Negative | 28-Feb | 28-Feb | | |
| 24 | NT | NT | NT | NT | NT | NT | NT | NT | 05-Mar | NT | Delayed delivery | |
| 25 | Positive | Positive | Positive | Positive | Positive | Negative | Positive | Negative | 28-Feb | 28-Feb | | |
| 28 | NT | NT | NT | NT | NT | NT | NT | NT | 05-Mar | NT | Delayed delivery | |
| 34 | Positive | Positive | Positive | Negative | Positive | Negative | Positive | Negative | 28-Feb | 28-Feb | | |
| 35 | Positive | Positive | Positive | Negative | | | | | 01-Mar | 01-Mar | | |
| 38 | Positive | Positive | Positive | Positive | Positive | Positive | Positive | Negative | 28-Feb | 28-Feb | | |
| 39 | Positive | Positive | Positive | Negative | Positive | Negative | Positive | Negative | 28-Feb | 28-Feb | | |
| 41 | Positive | Negative | Positive | Negative | Positive | Negative | Positive | Negative | 28-Feb | 28-Feb | | |
| 42 | Positive | Negative | Positive | Negative | Positive | Negative | Positive | Negative | 27-Feb | 28-Feb | | |
| 45 | Positive | Negative | Positive | Negative | Positive | Negative | Positive | Negative | 28-Feb | 01-Mar | | |
| 48 | Positive | Equivocal | Positive | Negative | Positive | Positive | Positive | Positive | 28-Feb | 28-Feb | | |
| 51 | Positive | Positive | Positive | Positive | NT | NT | NT | NT | 28-Feb | 05-Mar | Delayed delivery | |
| 54 | Positive | Positive | Positive | Negative | NT | NT | NT | NT | 28-Feb | 01-Mar | Positive control failed for B cell set | |
| 58 | Positive | Positive | Positive | Negative | Positive | Positive | Positive | Negative | 28-Feb | 28-Feb | | |
| 62 | Positive | Positive | Positive | Negative | Positive | Positive | Positive | Negative | 28-Feb | 28-Feb | | |

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| Lab No. | Serum 1 cytometer reading | Serum 2 cytometer reading | Serum 3 cytometer reading | Serum 4 cytometer reading | Negative control (local) | Positive control (local) | Strong positive (local) | Weak positive (local) | Positive result value | Cytometer reading units | Viability (%) |
|---------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------|-------------------------|-----------------------|-----------------------------------------------------|--------------------------------|---------------|
| 9 | 4.95 | 2.08 | 16.20 | 1.15 | 2.09 | 28.60 | | | >1.5 x Trimmed Mean | Median x (Log) | 90 |
| 11 | 537 | 285 | 1563 | 157 | 153, 143, 138, 136 | 406, 774 | | | 1.2 RMF | Median Log Fluorescence | |
| 14 | 1069 | 794 | 1810 | 709 | 613 | 8246 | | | 1.5 x Mean Neg | Median Log Fluorescence | |
| 15 | 3.4 | 1.61 | 9.03 | 1.36 | 307.5 | 16,571 | | | RMF >1.5 | Median | |
| 19 | 0.808 | 0.482 | 2.385 | 0.286 | 0.289 | 9.79 | | | | Log Median x | |
| 20 | 1.24 | 0.788 | 2.59 | 0.649 | 0.563 | 1.26 | | | 40 Linear Channel Shift | Median Channel Fluorescence | |
| 23 | 12.9 | 7.6 | 14.87 | 5.83 | 8.9 | 50.9 | | | +3 SD | | |
| 24 | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | | | Not Tested | MFCN | N/A |
| 25 | 460 | 244 | 1193 | 159 | 116 | 10425 | | | RMF >1.2 | Median Log Channel | |
| 28 | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | | | Not Tested | | |
| 34 | 19.75 | 12.75 | 38.45 | 9.88 | 10.46 | 85 | | | +2 SD (11.44) | Median FL1 | |
| 35 | 6.37 | 3.71 | 11.62 | 2.41 | 2.28 | 2.71 | | | 3.02 (+3 SD) | Median Log Channel | 80 |
| 38 | 154 | 53.8 | 214.8 | 40.1 | 0 | 388.9 | | | 33 Linear Channel Shift | Linear Channel Shift | 90 |
| 39 | 0.33 | 0.21 | 0.8 | 0.14 | 0.13 | 1.16 | | | >1.5 RMF | Median Log Fluorescence | |
| 41 | 683 | 306 | 1557 | 283 | 248 | 6040 | | | RMF >1.6 | Median Fluorescence | 98 |
| 42 | 2.13 | 1.05 | 5.29 | 1.1 | 1 | 69.08 | | | >1.3 | RMF | |
| 45 | 297 | 244 | 379 | 250 | 230 | 574 | | | 40 Channel Shift (270) | Median Channel Value | |
| 48 | 1.17 | 0.61 | 2.54 | 0.54 | 0.46 | 30.69 | | | >1.3 RMF | Median | N/A |
| 51 | 19.4 | 15.9 | 28.7 | 6.7 | 4.7 | 50 | | | 7.2 (2.5 Channel Shift) | | 80 |
| 54 | 432, 423 | 345, 349 | 540, 540 | 328, 326 | 262, 268, 272, 264 | 831 | | | A Test /Neg MESF Ratio = or >1.2 Weak Pos, >1.5 Pos | Median Channel Shifts | |
| 58 | 506 | 371 | 1786 | 197 | 181 | 1329 | | | 1.5 x Neg Mean | Median Fluorescence | |
| 62 | 1.125 | 0.786 | 4.17 | 0.537 | 0.413 | 4.6 | | | RMF >1.5 | Log Median Fluorescence Intens | 99 |

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| Lab No. | Serum 1 cytometer reading | Serum 2 cytometer reading | Serum 3 cytometer reading | Serum 4 cytometer reading | Negative control (local) | Positive control (local) | Strong positive (local) | Weak positive (local) | Positive result value | Cytometer reading units | Viability (%) |
|---------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------------------------------|---------------|
| 9 | | | | | | | | | | Median x (Log) | 90 |
| 11 | 1910.00 | Not Tested | 4442.00 | 610.00 | 629, 666 | 6941, 8600 | | | 1.5 RMF | Median Log Fluorescence | |
| 14 | 1069.00 | 794.00 | 1810.00 | 709.00 | 1557.00 | 21345.00 | | | 1.5 x Mean Neg | Median Log Channel | |
| 15 | 2.96 | 1.36 | 5.88 | 1.03 | 696.50 | 23, 727 | | | RMF >1.5 | Median | |
| 19 | 2.22 | 1.34 | 5.61 | 1.08 | 0.99 | 24.28 | | | | Log Median x | |
| 20 | 4.02 | 2.22 | 7.20 | 2.04 | 1.35 | 3.28 | | | 40 Linear Channel Shift | Median Channel Fluorescence | |
| 23 | 10.89 | 5.46 | 19.20 | 5.61 | 5.21 | 98.60 | | | +2 SD | Median Channel Fluorescence | |
| 24 | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | | | Not Tested | MFCN | N/A |
| 25 | 1036.00 | 472.00 | 2174.00 | 434.00 | 432.00 | 16846.00 | | | RMF >1.3 | Median Log Channel | |
| 28 | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | | | Not Tested | | |
| 34 | 20.10 | 9.80 | 34.35 | 11.45 | 12.30 | 66.00 | | | +2 SD (16.18) | Median FL1 | |
| 35 | | | | | | | | | | Median Log Channel | 80 |
| 38 | 107.70 | 40.70 | 156.50 | 27.80 | 0.00 | 322.00 | | | 40 Linear Channel Shift | Linear Channel Shift | 90 |
| 39 | 0.72 | 0.35 | 1.50 | 0.26 | 0.22 | 3.83 | | | >2.0 RMF | Median Log Fluorescence | |
| 41 | 1430.00 | 479.00 | 2605.00 | 475.00 | 459.00 | 7610.00 | | | RMF >1.6 | Median Fluorescence | 98 |
| 42 | 2.33 | 0.99 | 5.67 | 1.14 | 1.00 | 166.84 | | | >1.5 | RMF | |
| 45 | 432 | 404 | 491 | 383 | 392 | 689 | | | 40 Channel Shift (432) | Median Channel Value | |
| 48 | 3.58 | 1.21 | 5.47 | 1.03 | 0.72 | 37.74 | | | >1.3 RMF | Median | N/A |
| 51 | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | | | Not Tested | | 80 |
| 54 | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | | | Not Tested | | |
| 58 | 1394 | 1206 | 4321 | 645 | 438 | 6940 | | | 1.5 X Neg Mean | Median Fluorescence | |
| 62 | 3.455 | 2.66 | 12.25 | 1.55 | 0.706 | 34.5 | | | RMF >3.0 | Log Median Fluorescence Intensity | 99 |