

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B01/2017 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 17TH JANUARY 2017

HLA PHENOTYPE OF BLOOD DONOR: HLA-A23, A29; B44, B-; Cw4, Cw16; DR7, DR-; DQ2, DQ-

| | | Summary of Results | | | | | | | | | | | |
|---|--|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|-------------|---------------|----------|
| | | T-cells | | | | B-cells | | | | | | | |
| Total tested | | 21 | 21 | 21 | 21 | 18 | 19 | 19 | 18 | | | | |
| Positive | | 0 | 21 | 21 | 0 | 0 | 19 | 19 | 0 | | | | |
| Negative | | 21 | 0 | 0 | 21 | 18 | 0 | 0 | 18 | | | | |
| NT/Equivocal | | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | | | | |
| % Positive | | 0.0% | 100.0% | 100.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% | | | | |
| % Negative | | 100.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% | 0.0% | 100.0% | | | | |
| Consensus | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | | | | |
| HLA Antibody Specificity (Defined By CDC) | | A11 | B44 | A2, A28, A9 | B57 | A11 | B44 | A2, A28, A9 | B57 | | | | |
| | | 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 | Viability (%) | Comments |
| 9 | | Negative | Positive | Positive | Negative | | | | | 18-Jan | 19-Jan | 95 | |
| 11 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 19-Jan | | |
| 14 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 17-Jan | 18-Jan | | |
| 15 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 17-Jan | 17-Jan | | |
| 19 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 17-Jan | 18-Jan | | |
| 20 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 19-Jan | 90 | |
| 23 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 18-Jan | | |
| 24 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 19-Jan | 90 | |
| 25 | | Negative | Positive | Positive | Negative | Equivocal | Positive | Positive | Equivocal | 18-Jan | 19-Jan | | |
| 28 | | Equivocal | Equivocal | Equivocal | Equivocal | Negative | Positive | Positive | Negative | 18-Jan | 18-Jan | 99 | |
| 34 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 18-Jan | | |
| 35 | | Negative | Positive | Positive | Negative | | | | | 18-Jan | 19-Jan | 90 | |
| 38 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 19-Jan | 95 | |
| 39 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 18-Jan | | |
| 41 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 18-Jan | 95 | |
| 42 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 18-Jan | 90 | |
| 45 | | Negative | Positive | Positive | Negative | | | | | 18-Jan | 19-Jan | | |
| 48 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 18-Jan | | |
| 51 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 19-Jan | 95 | |
| 54 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 19-Jan | | |
| 58 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 18-Jan | | |
| 62 | | Negative | Positive | Positive | Negative | Negative | Positive | Positive | Negative | 18-Jan | 18-Jan | 99 | |

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| Lab No. | Serum 1 | | Serum 2 | | Serum 3 | | Serum 4 | | MoU Range | Negative control (local) | Positive control (local) | Strong positive (local) | Weak positive (local) | Positive result value | Cytometer reading units |
|---------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|-----------|--------------------------|--------------------------|-------------------------|-----------------------|---------------------------|-----------------------------|
| | cytometer reading | Within MoU | cytometer reading | Within MoU | cytometer reading | Within MoU | cytometer reading | Within MoU | | | | | | | |
| 9 | 0.99 | No | 3.44 | No | 2.17 | No | 0.48 | No | | 1.16 | 34.50 | | | >1.5x trimmed mean | Median X (log) |
| 11 | 116, 108 | | 372, 398 | | 256, 268 | | 95, 94 | | 2 | 98, 96, 110, 107 | 218, 455 | | | 123.3 (1.2RMF) | Median log fluorescence |
| 14 | 505.5 | No | 1862 | No | 1408.5 | No | 551 | Yes | 530-728 | 420 | 3110.5 | | | 1.5x mean neg | Median log channel |
| 15 | 1.09 | Yes | 5.3 | Yes | 3.61 | Yes | 0.94 | Yes | ±6% | 195.5 | 10034 | | | RMF >1.5 | Median |
| 19 | 0.275 | | 1.813 | | 1.983 | | 0.208 | | | 0.223 | 7.96 | | | | Log median X |
| 20 | 0.48 | Yes | 1.23 | No | 0.967 | No | 0.411 | No | 20-60 LCS | 0.389 | 0.937 | | | 40 linear channel shift | Linear channel |
| 23 | 6.17 | Yes | 10.73 | Yes | 26.79 | Yes | 4.83 | Yes | 20% | 5.46 | 63.21 | | | +3SD | Median channel fluorescence |
| 24 | 99 | No | 357 | No | 327 | No | 79 | No | 1.4-2.0 | 81 | 159, 332 | | | 1.5x neg | MFCN |
| 25 | 55 | No | 109 | No | 167 | No | 53 | No | 1.2-1.4 | 48 | 2016 | | | RMF >1.3 | Median log channel |
| 28 | 137 (1.7) | | 211 (2.6) | | 159 (2) | | 178 (2.2) | | | 81 | 874 | | | ≥1.6-3 Equivocal | MFI |
| | | | | | | | | | | | | | | ≥3.1 Pos | |
| 34 | 3.79 | Yes | 8.18 | No | 6.3 | No | 3.17 | Yes | 2.96-4.08 | 3.52 | 19 | | | +2SD (3.91) | Median FL1 |
| 35 | 2.22 | Yes | 6.98 | No | 6.41 | No | 1.94 | Yes | ±6.39% | 1.83 | 54.4 | | | Mean of neg control +3SD | Median log channel |
| 38 | -15.2 | No | 115.6 | No | 94.7 | No | -22 | No | 2.27 | 0 | 215.6 | | | 33 linear channel shift | Linear channel shift |
| 39 | 0.16 | | 0.29 | | 0.26 | | 0.15 | | | 0.15 | 1.15 | | | >1.5 RMF | Median log fluorescence |
| 41 | 202 | | 1012 | | 607 | | 177 | | | 188 | 8406 | | | 1.6x neg RMF | Median RMF |
| 42 | 1.13 | Yes | 2.26 | Yes | 1.84 | Yes | 0.88 | Yes | 1SD | 1 | 39.52 | | | >1.3 | RMF |
| 45 | 207 | | 298 | | 292 | | 200 | | | 197 | 608 | | | 40 channel shift (237) | Median channel value |
| 48 | 0.53 | Yes | 1.01 | Yes | 0.76 | Yes | 0.51 | Yes | | 0.53 | 3.78 | | | >1.3 RMF | Median log channel |
| 51 | 4.93 | | 26.49 | | 16.9 | | 5.6 | | | 4.52 | 170 | | | 7.02 | |
| 54 | 246, 241 | | 481, 488 | | 450, 441 | | 203, 215 | | | | 821 | | | ≥1.2x MESF of neg control | Median channel value |
| 58 | 251 | No | 936 | No | 805 | No | 184 | No | 7 | 203 | 1045 | | | 1.5x Mean (305) | Log median |
| 62 | 0.492 | Yes | 1.965 | Yes | 1.355 | Yes | 0.424 | Yes | | 0.4307 | 2.575 | | | RMF >1.5 | Median log channel |

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DISPATCHED ON 17TH JANUARY 2017

| Lab No. | Serum 1 | | Serum 2 | | Serum 3 | | Serum 4 | | MoU Range | Negative control (local) | Positive control (local) | Strong positive (local) | Weak positive (local) | Positive result value | Cytometer reading units |
|---------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|------------|------------------------------|--------------------------|-------------------------|-----------------------|---------------------------|-----------------------------|
| | cytometer reading | Within MoU | cytometer reading | Within MoU | cytometer reading | Within MoU | cytometer reading | Within MoU | | | | | | | |
| 11 | 2360, 2135 | | 8615, 9140 | | 3990, 3971 | | 2071, 2125 | | | 2416, 1884, 2152, 2261 | 11985, 19607 | | | 2613.7 (1.2RMF) | Median log fluorescence |
| 14 | 3880.5 | | 16223 | | 7767 | | 3315 | | 3320-4564 | 2628 | 23971.5 | | | 1.5x mean neg | Median log channel |
| 15 | 1.23 | Yes | 4.96 | Yes | 2.9 | Yes | 1.02 | Yes | ±11% | 1864.5 | 24368 | | | RMF >1.5 | Median |
| 19 | 5.531 | | 22.86 | | 11,226 | | 4.528 | | | 3,998 | 40,913 | | | | Log median X |
| 20 | 3.63 | | 20.1 | | 9.87 | | 2.65 | | 14-66 LCS | 3.61 | 6.01 | | | 40 linear channel shift | Linear channel |
| 23 | 9.55 | | 23.2 | | 28.23 | | 5.74 | | 18% | 10.73 | 177.83 | | | +2SD | Median channel fluorescence |
| 24 | 460 | | 2179 | | 1287 | | 207 | | 1.3-2.0 | 233 | 481, 1474 | | | 2x neg | MFCN |
| 25 | 267 | | 652 | | 870 | | 352 | | 1.1-1.5 | 218 | 9962 | | | RMF >1.3 | Median log channel |
| 28 | 224 (1.5) | | 1156 (7.6) | | 558 (3.6) | | 224 (1.5) | | | 153 | 1305 | | | ≥2.0-3.5 Equivocal | MFI |
| 34 | 10.26 | Yes | 25.2 | No | 14.9 | No | 8.77 | Yes | 4.56-13.68 | 9.12 | 60.2 | | | ≥3.6 Pos | Median FL1 |
| 38 | -5.1 | | 48.2 | | 62.2 | | -8.4 | | 4.76 | 0 | 255.3 | | | +2SD (12.82) | Linear channel shift |
| 39 | 0.34 | | 2.28 | | 1.02 | | 0.29 | | | 0.35 | 4.84 | | | >2 RMF | Median log fluorescence |
| 41 | 727 | | 5159 | | 2727 | | 585 | | | 732 | 14201 | | | 1.6x neg RMF | Median RMF |
| 42 | 1.07 | Yes | 4.49 | Yes | 2.74 | Yes | 0.55 | Yes | 1SD | 1 | 28.65 | | | >1.5 | RMF |
| 48 | 1.9 | | 6.22 | | 4 | | 1.38 | | | 1.82 | 14.23 | | | >1.3 RMF | Median log channel |
| 51 | 12.8 | | 63.4 | | 50.1 | | 18.1 | | | 15.6 | 327 | | | 20.6 | |
| 54 | 581, 585, 562 | | 730, 737, 709 | | 675, 670, 667 | | 603, 577, 563 | | | 551, 545, 565, 567, 565, 560 | 869 | | | ≥1.2x MESF of neg control | Median channel value |
| 58 | 2159 | No | 11677 | No | 6115 | No | 1470 | No | 64 | 1957 | 11642 | | | 1.5x mean 3731 | Log median |
| 62 | 3.3 | Yes | 21.9 | Yes | 13.8 | Yes | 2.68 | Yes | | 2.54 | 55.35 | | | RMF >3 | Median log channel |