

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B01/2016 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 12TH JANUARY 2016

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A29; B44, B45; Cw6, Cw16; DR4, DR7; DQ2, DQ7

Summary of Results											
T-cells					B-cells						
Total tested	22	23	23	23	19	20	20	20			
Positive	0	23	23	23	0	20	20	20			
Negative	22	0	0	0	19	0	0	0			
NT/Equivocal	1	0	0	0	1	0	0	0			
% Positive	0.0%	100.0%	100.0%	100.0%	0.0%	100.0%	100.0%	100.0%			
% Negative	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%			
Consensus	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive			
HLA Antibody Specificity (Defined By CDC)	B12	DR7, DQ2	Cw5, DR4	B12	B12	DR7, DQ2	Cw5, DR4	B12			
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	Negative	Positive	Positive	Positive					13-Jan	14-Jan	
11	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	14-Jan	15-Jan	
12	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	13-Jan	
14	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	13-Jan	
15	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	13-Jan	
19	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	13-Jan	
20	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	14-Jan	
23	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	13-Jan	
24	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	14-Jan	
25	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	14-Jan	15-Jan	
28	Equivocal	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	13-Jan	
34	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	13-Jan	
35	Negative	Positive	Positive	Positive					13-Jan	14-Jan	
38	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	13-Jan	
39	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	13-Jan	
41	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	13-Jan	
42	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	14-Jan	
45	Negative	Positive	Positive	Positive					13-Jan	14-Jan	
48	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	13-Jan	
51	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	14-Jan	
54	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	14-Jan	
58	Negative	Positive	Positive	Positive	Equivocal	Positive	Positive	Positive	13-Jan	13-Jan	
62	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	13-Jan	13-Jan	

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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	0.48	3.21	4.30	3.28	1.09	29.33			>1.5x trimmed mean	Median x (log)	70
11	65	242	315	585	76	183			>98 (2SD)	Median log channel	90
12	119	449	696	1382	114	348			Mean channel shift >50	MCF	
14	719	2414	2756	6038	642.5	4695			1.5x mean neg	Median log channel	
15	207.5	1025.5	1636.5	3197	173.5	7825					
	RMF 1.2	5.9	9.4	18.4					RMF >1.5	Median	100
19	0.351	2.54	2.013	6.534	0.275	5.81				Log median x	
20	0.496	2.06	4.26	7.64	0.424	1.29			≥40 linear channel shift	Median log channel	85
23	4.28	17.18	20.1	24.3	3.74	62.9			+3SD	MCF	
24	258.6	1562	1216	2524	199.5	7364, 768			1.2x Neg	MFCN	95
25	77	516	432	1549	66	1533			RMF >1.3	Median log channel	
28	1.9 (76)	6.8 (277)	6.1 (252)	10 (409)	41	1273			≥1.6	MFI (ratio)	.
34	4.6	13.4	13	24.8	4.45	23			+2SD (5.33)	Median FL1	
35	1.25	1.47	1.44	1.59	1.39	2.59			Mean +3SD	Median fluorescence units	
38	32	271.5	324.4	390.4	0	407.8			46 linear channel shift	Linear channel shift	95
39	0.16	0.56	0.7	1.31	0.16	2.83			>1.5 RMF	Median log fluorescence	
41	231	874	885	1812	216	8336			≥1.5 RMF	Median log channel shift	75
42	220	1130	968	2987	175		7170	355	RMF ratio >1.3	Median log channel	95
45	186	327	388	443	185	578			225 (≥40 channel shift)	Median channel value	
48	0.65	1.63	2.51	3.83	0.64	10.43			≥1.3 RMF	Median log channel	
51	5.45	19.19	16.4	47.41	5.46	176			7.86 (+2.4 shift)		95
54	300, 320	517, 520	487, 505	643, 630	270, 293, 297, 298, 292, 286	830			MESF ratio ≥1.5	Median channel shift	
58	1.44	5.73	3.91	14	1.3	6.09			1.69 (1.3x mean)	Log median	
62	0.586	4.34	10.5	4.4	0.48	34.16			RMF >1.5	Median log channel	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 (%)
11	797	7505	3572	3194	780	3401			>1248 (1.6 RMF)	Median log channel	90
12	1193	6899	4028	4564	1049	4025			Mean channel shift >50	MCF	
14	6125	18791	11232	14991	5949	26019			1.5x mean neg	Median log channel	
15	1395	12276	6834	8183	1764.5	15211					
	RMF 0.8	6.96	3.87	4.6					RMF >1.5	Median	100
19	6.741	24.956	18.058	20.936	5.483	26.808				Log median x	
20	5.14	37.8	30.5	29.9	3.95	8.22			≥40 linear channel shift	Median log channel	85
23	8.86	73.59	58.72	76.07	7.52	248			+2SD	MCF	
24	1948	16654	12127	7234	1951.5	35051, 3041			2x Neg	MFCN	95
25	834	8119	4774	5862	1103	5693			RMF >1.3	Median log channel	
28	1.4 (179)	13.8 (1827)	6.6 (874)	8.4 (1111)	132	1696			≥1.9	MFI (ratio)	.
34	41.9	120.3	96.2	90.3	36.4	113.5			+2SD (49.3)	Median FL1	
38	-43.6	189.8	135.2	164.3	0	300.2			63 linear channel shift	Linear channel shift	95
39	0.62	8.16	4.42	4.56	0.6	11.3			>2.0 RMF	Median log fluorescence	
41	1041	5959	3847	4148	983	112000			≥1.5 RMF	Median log channel shift	75
42	710	11081	5077	8000	597		24172	2358	RMF ratio >1.5	Median log channel	95
48	1.9	12.7	9.32	7.86	1.89	19.48			≥1.3 RMF	Median log channel	
51	12.24	79.98	54.55	84.68	14.97	296			21.47 (+6.5 shift)		95
54	583, 649, 644	802, 795, 796	716, 693, 705	737, 767, 748	560, 540, 588, 594, 561, 631	859			MESF ratio ≥1.5	Median channel shift	
58	6.37	38	25.3	39.13	4.85	27			6.31 (1.3x mean)	Log median	
62	6.16	47.3	41	47.1	2.93	91.6			RMF >1.5	Median log channel	99