

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B06/2016 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 17TH MAY 2016

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A25; B7, B8; Cw7, Cw-; DR15, DR17; DQ2, DQ6

Summary of Results												
T-cells					B-cells							
Total tested	20	19	22	21	18	17	18	19				
Positive	0	8	1	0	2	11	2	19				
Negative	20	11	21	21	16	6	16	0				
NT/Equivocal	3	4	1	2	2	3	2	1				
% Positive	0.0%	42.1%	4.5%	0.0%	11.1%	64.7%	11.1%	100.0%				
% Negative	100.0%	57.9%	95.5%	100.0%	88.9%	35.3%	88.9%	0.0%				
<b>Consensus</b>	<b>Negative</b>	<b>Not Assessed</b>	<b>Negative</b>	<b>Negative</b>	<b>Negative</b>	<b>Not Assessed</b>	<b>Negative</b>	<b>Positive</b>				
HLA Antibody Specificity (Defined By CDC)	B15	A1	B12	B12	B15	A1	B12	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	Equivocal	Negative	Negative	Equivocal	Negative	Negative	Positive	18-May	20-May	NIBSC weak PC was negative. In this case our procedure is to interpret results with caution in light of HLA antibody testing and donor mismatches. We don't have this so have reported as equivocal.	
11	Equivocal	Negative	Negative	Negative	Equivocal	Negative	Negative	Positive				
12	Negative	Positive	Negative	Negative	Negative	Positive	Negative	Positive	18-May	18-May		
14	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	18-May	18-May		
15	Negative	Positive	Negative	Negative	Negative	Positive	Negative	Positive	18-May	18-May		
19	Negative	Negative	Negative	Negative	Negative	Positive	Equivocal	Positive	18-May	19-May		
20	Negative	Positive	Negative	Negative	Negative	Positive	Positive	Positive	18-May	18-May		
23	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Positive	18-May	18-May		
24	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal	18-May	19-May		
25	Negative	Positive	Negative	Negative	Negative	Negative	Negative	Positive	18-May	19-May		
28	Equivocal	Equivocal	Negative	Equivocal	Positive	Equivocal	Negative	Positive	18-May	18-May		
34	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	18-May	18-May		
35	Negative	Negative	Negative	Negative					18-May	19-May		
38	Negative	Positive	Negative	Negative	Negative	Positive	Negative	Positive	18-May	18-May		
39	Negative	Negative	Negative	Negative	Negative	Equivocal	Negative	Positive	18-May	18-May		
41	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	18-May	18-May		
42	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	18-May	18-May		
45	Negative	Positive	Negative	Negative					18-May	19-May		
48	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Positive	18-May	18-May		
51	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	18-May	19-May		
54	Negative	Positive	Negative	Negative	Negative	Positive	Negative	Positive	18-May	19-May		
58	Negative	Negative	Negative	Negative	Positive	Positive	Negative	Positive	18-May	18-May		
62	Negative	Equivocal	Negative	Negative	Negative	Positive	Negative	Positive	18-May	18-May		

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T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B06/2016 (COMPARED TO LOCAL NEGATIVE CONTROL)

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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	0.5		0.5	0.6	0.60	11.7			>1.5 x trimmed mean	Median x (log)	95
11	75	68	61	68	69, 69, 62, 74	110, 239			77 Mean +2SD	Median log channel	
12					85	2827			Mean channel shift >50	MCF	95
14	499	634	453.5	487.5	426	17015.5			1.5x mean NEG	Median log channel	
15	1.02	1.66	0.82	0.82	170	18333			RMF >1.5	Median	95
19	0.208	0.266	0.211	0.215	0.235	15.349				Log median x	
20	0.454	0.56	0.423	0.415	0.381	1.37			40 LCS	MCF	100
23	4.6	4.42	4.5	4.6	4.42	46.1			+3SD	MCF	
24	157	161	150	129	137	961, 145			1.5x negative	MFCN	90
25	63	117	59	65	62	2604			RMF >1.3	Median log channel	
28	174	157	129	146	94	1920			≥1.6-3 (equivocal), >3.1 (pos)	MFI	
34	4.8	4.4	4.4	4.6	5.4	32.1			2SD	MFI	95
35	1.71	2.63	2.2	2.41	2.35	8.86			3.77, 3SD + mean NC	Median log channel	
38	45.1	77.1	22.5	45.1	0	509.2			Linear channel shift >46	Linear channel shift	
39	0.14	0.15	0.13	0.13	0.14	4.94			>1.5 RMF	Median log fluorescence	
41	189	245	183	183	217	8462			>1.5 RMF (326)	Median Fluorescence	95
42	226	283	210	227	225		9689	318	RMF ratio >1.3	Median log channel	95
45	183	212	164	170	168	515			40 channel shift (207)	Median channel value	
48	0.57	0.67	0.54	0.56	0.57	6.08			>1.3 RMF	Median log channel	100
51	3.85	7.56	6.85	4.14	4.05	62.6			6.55		90
54	119, 125	278, 282	96, 108	109, 103	185, 185, 193, 174, 186	804			Test: AB MESF ratio, ≥1.2 (weak pos), ≥1.5 (pos)	Median channel shift	
58	196	193	181	183	185	119			215 2SD	Median channel	
62	0.43	0.54	0.42	0.44	0.41	14.2			>1.5	Median log channel	95

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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	469	543	426	2816	275, 473, 327	4135, 7776			573, 1.6x RMF	Median log channel	
12					183	4144			Mean channel shift >50	MCF	95
14	2004	2454	2084.5	6577	1794.5	34285.5			1.5x mean neg	Median log channel	
15	1.33	1.56	0.72	3.52	1507	43978			RMF >1.5	Median	95
19	3.81	5.289	4.579	16.206	2.64	60.232				Log median x	
20	1.845	4.035	2.855	22.025	1.795	4.625			40 LCS	MCF	100
23	8.6	16.6	15.4	113.1	12	96.4			+2SD	MCF	
24	1251	580	274	523	208	2290, 164			2x neg	MFCN	90
25	433	736	635	3293	635	8916			RMF >1.3	Median log channel	
28	3881	478	261	1699	144	2209			≥2-3.5 (equivocal), ≥3.6 (pos)	MFI	
34	27	3.3	1.8	11.8							
34	9.6	10.4	9.4	24.6	10.7	41.3			2SD	MFLI	95
38	5.6	56.5	-2.6	187.6	0	366.2			Linear channel shift >35	Linear channel shift	
39	0.7	1.22	0.86	4.75	0.61	13.95			>2 RMF	Median log fluorescence	
41	502	780	444	2754	524	16123			>1.5 RMF (786)	Median fluorescence	95
42	494	736	451	2486	652		28069	1508	RMF ratio >1.5	Median log channel	95
48	0.74	1.46	0.97	5.81	0.83	11.21			>1.3 RMF	Median log channel	100
51	9.4	48.75	14.03	14.95	6.82	103.6			13.3		90
54	502, 542, 507	519, 520, 496	440, 504, 471	648, 653, 639	459, 452, 453, 448, 455, 440	911			Test: AB MESF ratio, ≥1.2 (weak pos), ≥1.5 (f	Median channel shift	
58	3412	1689	1040	5852	804	6539			1206, 1.5x mean	Median channel	
62	3.4	6.48	3.80	26.70	1.56	58.7			>2.5	Median log channel	95