

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B07/2017 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 04 July 2017

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A3; B7, B61; Cw2, Cw7; DR1, DR9; DQ5, DQ9

Summary of Results											
T-cells					B-cells						
Total tested	21	21	21	20	17	17	17	14			
Positive	21	21	0	20	17	17	17	14			
Negative	0	0	21	0	0	0	0	0			
NT/Equivocal	1	1	1	2	5	5	5	8			
% Positive	100.0%	100.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%			
% Negative	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
<b>Consensus</b>	<b>Positive</b>	<b>Positive</b>	<b>Negative</b>	<b>Positive</b>	<b>Positive</b>	<b>Positive</b>	<b>Positive</b>	<b>Positive</b>			
HLA Antibody Specificity (Defined By CDC)	A2	B7	DR4 DR9	B44	A2	B7	DR4 DR9	B44			
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	Positive	Negative	Equivocal	NT	NT	NT	NT	05-Jul	06-Jul	B-cell serum 4 - Insufficient B-cell count for a valid result.  Initial test failed. Repeat test had low B cell count.
11	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	06-Jul	
14	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	05-Jul	
15	Positive	Positive	Negative	Positive	Positive	Positive	Positive	NT	05-Jul	06-Jul	
19	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	06-Jul	
20	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	06-Jul	
23	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	05-Jul	
24	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	06-Jul	
25	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	05-Jul	
28	Equivocal	Equivocal	Equivocal	Equivocal	Positive	Positive	Positive	Positive	05-Jul	05-Jul	
34	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	05-Jul	
35	Positive	Positive	Negative	Positive	NT	NT	NT	NT	05-Jul	06-Jul	
38	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Equivocal	05-Jul	05-Jul	
39	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	05-Jul	
41	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	05-Jul	
42	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	05-Jul	
45	Positive	Positive	Negative	Positive	NT	NT	NT	NT	05-Jul	05-Jul	
48	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	05-Jul	
51	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Positive	05-Jul	06-Jul	
54	Positive	Positive	Negative	Positive	NT	NT	NT	NT	06-Jul	06-Jul	
58	Positive	Positive	Negative	Positive	NT	NT	NT	NT	05-Jul	05-Jul	
62	Positive	Positive	Negative	Positive	Positive	Positive	Positive	Equivocal	05-Jul	05-Jul	

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B07/2017 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 04 July 2017

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	6.99	5.8	0.5	2.03	1.26	34			>1.5 x Trimmed mean	Median x (log)	95
11	764.5	935.5	152	544	145, 135, 151, 146	564, 1736			1.2 RMF	Median Log Fluorescence	
14	1197.5	1499	492.5	873	390	4693.5			1.5 x mean NEG	Median Log Channel	
15	2.5	4.4	0.9	2.1	123	4450			RMF >1.5	Median	70
19	1.509	2.322	0.207	1.091	0.227	13.779				Log Median X	
20	3.33	4.512	0.491	2.092	0.371	1.15			40 LCS	Median Channel Fluorescence	90
23	43.95	54.6	13.5	28.2	13.4	142			+3SD	Median Channel Fluorescence	
24	804	960	154	552	165	1812, 285			1.5 x negative	MFCN	95
25	382	501	54	274	56	6022			RMF >1.2	Median Log Channel	
28	196	196	123	165	66	745			≥1.6 - 3 equivocal, ≥3.1 positive	MFI	
34	10.33	12.6	4.75	7.48	4.9	48.1			6.02 (Median + 2SD)	Median FL1	95
35	12.23	19.17	1.56	7.48	1.81	4.81			2.57 (+3SD)	Median Fluorescence	90
38											
39	0.55	0.61	0.15	0.4	0.16	2.65			>1.5 RMF	Median Log Fluorescence	
41	834	923	138	431	203	14843			>1.6 RMF	Median	95
42	2.61	3.61	1.05	1.7	1	155.77			>1.3	RMF	
45	324	361	171	279	167	633			40 channel shift	Median Channel Value	
48	1.13	1.16	0.54	0.81	0.56	4.79			>1.3 RMF	Median Log Channel	
51	34.3	53.1	5.6	24.3	5.4	77.7					
54	445, 451	522, 487	203, 206	399, 391	224, 228, 233, 221, 224, 215	319			≥1.2 weak positive, ≥ 1.5 positive	Median Channel Shift	NT
58	857	951	202	461	209	932			1.5 x neg mean	Log Median	
62	2.27	2.77	0.39	0.85	0.373	14.75			RMF >1.5	Median Log Channel	99

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

B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B07/2017 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 04 July 2017

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											
11	7105	5729	6585	4840	2305, 1833, 2051, 1743	11335, 19113			1.2 RMF	Median Log Fluorescence	
14	5602	5165	6015	3970.5	2161.5	14907			1.5 x mean NEG	Median Log Channel	
15	3.5	1.5	2.1	NT	1211	15569			RMF >1.5	Median	70
19	12.314	11.211	10.104	8.749	2.732	62.439			Log Median X		
20	26.7	26.38	18.91	18.85	4.2	10.82			40 LCS		
23	67.5	56	54.8	36.1	16.6	235			+2SD		
24	2578	4055	2582	3499	521	7268, 791			1.5 x negative		
25	2647	2225	2856	1790	703	12288			RMF >1.3	Median Log Channel	
28	619	477	873	387	112	1539			≥2.0 - 3.5 equivocal, ≥3.5 positive	MFI	
34	52.67	47.77	41.5	32.4	17.08	173			25.21 (Median + 2SD)	Median FL1	95
35											
38	110.5	83.1	128.6	37.7	0	348.8			40 linear channel shift		
39	3.28	2.49	2.6	1.97	0.41	12.65			>2 RMF	Median Log Fluorescence	
41	4623	2444	2831	1849	815	30884			>1.6 RMF	Median	95
42	3.11	5.74	4.61	2.07	1	185.02			>1.5	RMF	
45											
48	6.81	4.01	5.49	3.29	1.52	15.42			>1.3 RMF		
51	101.3	54.7	58.6	73.3	16.2	91.4					
54											
58											
62	20.45	16.2	15.1	5.4	1.6	70.3			RMF >3	Median Log Channel	99