

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B09/2016 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 06TH SEPTEMBER 2016

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A68; B44, B57; Cw5, Cw6; DR7, DR17; DQ2, DQ9

		Summary of Results										
		T-cells				B-cells						
Total tested		19	22	22	22	18	18	17	18			
Positive		6	22	0	0	18	18	1	1			
Negative		13	0	22	22	0	0	16	17			
NT/Equivocal		4	1	1	1	2	2	3	2			
% Positive		31.6%	100.0%	0.0%	0.0%	100.0%	100.0%	5.9%	5.6%			
% Negative		68.4%	0.0%	100.0%	100.0%	0.0%	0.0%	94.1%	94.4%			
Consensus		Not Assessed	Positive	Negative	Negative	Positive	Positive	Negative	Negative			
HLA Antibody Specificity (Defined By CDC)		DR7, DQ2	B12	A1	A23	DR7, DQ2	B12	A1	A23			
		T-cells				B-cells				Date Received	Date Tested	Comments
Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4				
9	Positive	Positive	Negative	Negative					07-Sep	08-Sep	Insufficient B-cell events	
11	Positive	Positive	Negative	Negative	Equivocal	Equivocal	Equivocal	Equivocal	07-Sep	09-Sep		
12	Negative	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	07-Sep		
14	Positive	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	07-Sep		
15	Positive	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	07-Sep		
19	Negative	Positive	Negative	Negative	Positive	Positive	Negative	Negative				
20	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Negative	07-Sep	07-Sep		
23	Negative	Positive	Negative	Negative	Positive	Positive	Equivocal	Positive	07-Sep	07-Sep		
24	Negative	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	08-Sep		
25	Equivocal	Positive	Negative	Negative	Positive	Positive	Negative	Negative	08-Sep	08-Sep		
28	Equivocal	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	07-Sep		
34	Negative	Positive	Negative	Negative	Positive	Positive	Negative	Negative	09-Sep	09-Sep		
35	Negative	Positive	Negative	Negative					07-Sep	08-Sep		
38	Positive	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	07-Sep		
39	Negative	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	07-Sep		
41	Negative	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	07-Sep		
42	Negative	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	08-Sep		
45	Negative	Positive	Negative	Negative					07-Sep	08-Sep		
48	Negative	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	07-Sep		
51	Negative	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	09-Sep		
54	Equivocal	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	08-Sep		
58	NT	NT	NT	NT	NT	NT	NT	NT	07-Sep	07-Sep	Insufficient cells isolated to test	
62	Negative	Positive	Negative	Negative	Positive	Positive	Negative	Negative	07-Sep	07-Sep		

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B09/2016 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 06TH SEPTEMBER 2016

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	1.8	6.2	0.7	0.6	0.80	27.5			>1.5x trimmed mean	Median x (log)	95
11	176	2328	117	130	130, 102, 126, 115	707, 1586			168.79 (mean +2SD)	Median log fluorescence	
12	70	311	73	72	69	548			Mean channel shift >50	MCF	
14	1087	3710	869.5	892	720	19870			1.5x mean Neg	Median log channel	
15	304	2968.5	207.5	193	203	20287					
	RMF 1.5	14.62	1.02	0.95					RMF≥1.5	Median	
19	0.308	3.575	0.233	0.233	0.282	15.488				Log median x	
20	0.745	10.461	0.514	0.492	0.477	1.642			40 LCS	MCF	99
23	7.3	29.7	5.9	7.3	6.26	91.4			+3SD	MCF	
24	170	1116	105	124	131	617, 2133			1.5x NEG	MFCN	95
25	73	916	54	52	55	3103			RMF >1.3	Median log channel	
28	118	403	103	79	70	1085			≥1.6-3 equivocal		
	1.7	5.8	1.5	1.1					>3.1 pos	MFI	90
34	3.26	20.6	2.38	1.72	3.39	34.55			2SD	MFI	95
35	3.08	24.33	1.51	1.52	1.36	14.61			1.61 3SD+ Mean Neg control	Median log channel	90
38	84.9	274.2	2.1	3.3	0	414.6			33	Linear channel shift	
39	0.18	1.09	0.15	0.15	0.16	2.95			>1.5 RMF	Median log fluorescence	
41	228	2324	172	174	167.3	13632			RMF >1.6	Median channel	95
42	188	1068	142	144	148		6106	300	RMF ratio >1.3	Median log channel	
45	203	374	196	180	201	554			40 channel shift (241)	Median channel value	
48	0.56	2.5	0.47	0.43	0.48	11.83			>1.29 RMF	Median log channel	
51	3.18	30.78	2.67	2.5	2.8	162			5.31		95
54	293, 295	565, 562	250, 233	213, 206	238, 248, 251, 249, 258	880			MESF test: neg ratio ≥1.2	Median channel shift	
58	NT	NT	NT	NT	NT	NT	NT	NT	NT	Log median	
62	0.644	6.56	0.448	0.454	0.4667	19.55			RMF >1.5	Median log channel	

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

B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B09/2016 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 06TH SEPTEMBER 2016

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	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal				Median log fluorescence	
12	372	897	210	218	199	2548			Mean channel shift >50	MCF	
14	18645.5	14554	4400.5	4109.5	3882.5	39970			1.5x mean Neg	Median log channel	
15	17088.5	12597.5	2857	2196	2835	36133					
	RMF 6.03	4.44	1.01	0.77					RMF ≥1.5	Median	
19	28.81	22.717	6.681	5.383	4.122	70.184				Log median x	
20	70.4	53.38	7.72	3.28	2.872	10.02			40 LCS	Median Channel Fluorescence	99
23	113.5	107.3	24.05	93.6	14.9	80.6			+2SD	MCF	
24	6591	3667	672	585	581	1555, 6791			2x NEG	MFCN	95
25	4514	4584	1024	639	970	6987			RMF >1.3	Median log channel	
28	1872	1295	289	171	178	1453			≥2.0-3.5 equivocal		
	10.5	7.3	1.6	1					≥3.6 pos	MFI	90
34	87.97	68.5	26.6	18.93	36.39	126.5			2SD	MFI	95
38	133.6	110	-12.2	3	0	232.8			40	Linear Channel Shift	
39	6.9	4.76	1.08	0.59	0.74	8.01			>2.0 RMF	Median log fluorescence	
41	6708	6254	805	647	559	20165			RMF >1.6	Median Channel	95
42	5718	3676	691	599	672		40543	1740	RMF ratio >1.5	Median log channel	
48	18.33	11.51	2.48	0.93	2.89	18.24			>1.29 RMF	Median log channel	
51	119.7	87.8	17.9	11.35	13.3	270			19.83		95
54	724, 723, 736	685, 678, 687	593, 569, 577	549, 541, 526	575, 583, 574, 566, 565	871			MESF test: neg ratio ≥1.2	Median channel shift	
58	NT	NT	NT	NT	NT	NT	NT	NT	NT	Log median	
62	50.75	36.55	5.365	2.865	2.2867	68.35			RMF >3.0	Median log channel	99