

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B06/2017 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 9th May 2017

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A-; B44, B50; Cw5, Cw6; DR1, DR4; DQ5, DQ7

Summary of Results												
T-cells					B-cells							
Total tested	19	21	22	22	18	17	18	18				
Positive	1	21	0	22	18	17	2	18				
Negative	18	0	22	0	0	0	16	0				
NT/Equivocal	3	1	0	0	1	2	1	1				
% Positive	5.3%	100.0%	0.0%	100.0%	100.0%	100.0%	11.1%	100.0%				
% Negative	94.7%	0.0%	100.0%	0.0%	0.0%	0.0%	88.9%	0.0%				
Consensus	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive				
HLA Antibody Specificity (Defined By CDC)	DR4, DR9	B44	B7	A2	DR4, DR9	B44	B7	A2				
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	Negative	Positive					10-May	11-May		
11	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive	10-May	11-May		
14	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive	10-May	10-May		
15	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive				
19	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive				
20	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive	11-May	11-May		
23	Negative	Positive	Negative	Positive	Positive	Positive	Positive	Positive	10-May	10-May		
24	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive	10-May	11-May		
25	Equivocal	Positive	Negative	Positive	Positive	Positive	Positive	Positive	10-May	10-May		
28	Equivocal	Positive	Negative	Positive	Positive	Positive	Negative	Positive	11-May	11-May		
34	Equivocal	Positive	Negative	Positive	Positive	Positive	Negative	Positive	10-May	10-May		
35	Negative	Positive	Negative	Positive					10-May	11-May		
38	Positive	Positive	Negative	Positive	Positive	Positive	Negative	Positive	10-May	10-May		
39	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive	10-May	10-May		
41	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive	10-May	10-May		
42	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive	10-May	10-May		
45	Negative	Positive	Negative	Positive					10-May	11-May		
48	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive	11-May	11-May		
51	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive	10-May	11-May		
54	Negative	Positive	Negative	Positive	Positive	Positive	Negative	Positive	10-May	11-May		
58	Negative	Equivocal	Negative	Positive	NT	NT	NT	NT	10-May	10-May	Insufficient B cells collected	
62	Negative	Positive	Negative	Positive	Positive	Equivocal	Negative	Positive	10-May	10-May		

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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	0.59	2.65	1.22	12.40	1.50	16.60			>1.5 x Trimmed mean	Median x (log)	95
11	165, 178	358, 373	156, 170	2942, 3096	131, 138, 166	516, 1691			174 (1.2 RFM)	Median Log Fluorescence	
14	608	1339	555	4168	448.5	8458			1.5 x mean NEG	Median Log Channel	
15	237.5	699.5	192	4114	212	10864			RMF >1.5	Median	
19	0.223	0.953	0.195	7.714		9.11			1.48 x average AB/5	Log Median X	
20	0.589	2.051	0.481	15.927	0.482	1.265			40 linear channel shift		90
23	5.05	6.08	4.36	34.86	3.99	56.74			3SD		
24	118	220	112	1560	118	378, 194			1.5 x negative		95
25	90	218	75	2306	74	2476			RMF >1.3	Median Log Channel	
28	73	137	59	476	39	771			≥1.6 -3 Equivocal ≥3.1 Positive	MFI	
34	4.5	6.57	3.8	43.73	3.63	24.5			2SD	Median FL1	
35	2.64	6.79	2.8	68.24	2.01	108.63			mean of negative control +3SD	Median Log Channel	90
38	73	127.4	15.8	304.4	0	361.2			33 linear channel shift		90
39	0.19	0.28	0.17	1.7	0.18	1.81			>1.5 RMF	Median Log Fluorescence	
41	169.3	427.3	153	2282.3	149.7	4884.7			RMF >1.6	Median Channel	90
42			1.1	2.51	0.91	15.56	1	31.7	>1.3	RMF	
45	190	265	169	439	172	548			40 channel shift (212)		
48	0.64	1.76	0.64	9.3	0.66	12.09			>1.3 RMF		
51	4.66	14.9	4.9	60.5	5.2	248			7.69		
54	286, 276	430, 417	299, 297	642, 641	292, 281, 280, 278, 274, 268	791			weak positive; ≥1.2 positive; ≥1.5	Median Channel Shift	NT
58	201	370	194	4053	199	944			1.5 x mean		
62	0.45	0.86	0.41	9.7	0.394	18			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 (%)
9	NT	NT	NT	NT	NT	NT	NT	NT			
11	23460, 23818	7777, 7282	1395	26639, 27981	1876, 1676, 1655	8139, 14354			2083 (1.2 RMF)	Median Log Fluorescence	
14	18826.5	12304	3350.5	21592	2679.6	19772			1.5 x mean NEG RMF >1.5	Median Log Channel Median	
15	20252	7030.5	2110	23602.5	2375	29797			1.88 x average AB/5	Log Median X	
19	15.493	14.679	5.513	30.551		37.059			40 linear channel shift		90
20	70.811	26.179	5.627	5.627	5.687	10.332			2SD		
23	130.3	55.4	32.8	169.1	15.26	198.1			2 x Negative RMF >1.3	Median Log Channel MFI	95
24	2822	1008	337	6980	209	1494, 435			≥2.0 -3.5 equivocal		
25	8437	2677	1410	12214	836	13058			≥2.6 positive	Median FL1	
28	828	649	147	1606	112	1261			2SD		
34	161.67	70	33.9	171	28.17	213			40 linear channel shift		
35									>2.0 RMF	Median Log Fluorescence	
38	271.2	56.2	12.2	236	0	252			RMF >1.6	Median Channel	90
39	13.05	3.29	0.83	12.4	0.62	8.04			>1.5	RMF	
41	4342	2098.7	509.3	7406.7	534.3	8591.3					
42	11.77	4.42	0.99	14.11	1	19.32					
45			NT	NT	NT	NT	NT	NT			
48	9.82	8.48	2.11	32.31	1.92	23.16			>1.3 RMF	RMF	
51	138.4	36.7	11.4	201.9	11.9	378			18.48		
54	839, 829, 823	748, 726, 717	635, 656, 662	856, 856, 853	614, 642, 647, 622, 624, 644	935			weak positive; ≥1.2 positive; ≥1.5	Median Channel Shift	NT
58	NT	NT	NT	NT	NT	NT	NT	NT			
62	34.1	8.8	5.9	67	2.55	89.4			RMF >3	Median Log Channel	99