

UK NEQAS FOR H&I SCHEME 2B - CROSSMATCHING BY FLOW CYTOMETRY

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B04/2015 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 10TH MARCH 2015

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, -; B8, B18; Cw7, -; DR4, DR17; DQ2,DQ8

Summary of Results												
T-cells					B-cells							
Total tested	22	22	23	23	17	17	18	18				
Positive	12	1	2	0	4	4	2	11				
Negative	10	21	21	23	13	13	16	7				
NT/Equivocal	1	1	0	0	3	3	2	2				
% Positive	54.5%	4.5%	8.7%	0.0%	23.5%	23.5%	11.1%	61.1%				
% Negative	45.5%	95.5%	91.3%	100.0%	76.5%	76.5%	88.9%	38.9%				
Consensus	Not Assessed	Negative	Negative	Negative	Negative	Negative	Negative	Not Assessed				
HLA Antibody Specificity (Defined By CDC)	A3	DR1	A11	DR7, DQ2	A3	DR1	A11	DR7, DQ2				
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	NT	Positive	Negative					11-Mar	12-Mar	Serum 2 - Poor duplicates Low cell events	
11	Positive	Negative	Negative	Negative	Equivocal	NT	NT	NT	11-Mar	13-Mar		
12	Positive	Negative	Negative	Negative	Negative	Positive	Negative	Positive	11-Mar	11-Mar		
14	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	11-Mar	11-Mar		
15	Positive	Negative	Negative	Negative	Negative	Negative	Negative	Negative	11-Mar	11-Mar		
19	Positive	Negative	Negative	Negative	Negative	Negative	Negative	Negative	12-Mar	12-Mar		
20	Positive	Negative	Negative	Negative	Positive	Positive	Positive	Positive	11-Mar	11-Mar		
23	Weak Positive	Negative	Negative	Negative	Weak Positive	Negative	Positive	Positive	11-Mar	11-Mar		
24	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	11-Mar	12-Mar		
25	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Positive	11-Mar	12-Mar		
28	Weak Positive	Weak Positive	Negative	Negative	NT	NT	NT	NT	11-Mar	11-Mar	Positive control unacceptable therefore not happy to report results	
34	Negative	Negative	Negative	Negative	Positive	Positive	Negative	Positive	11-Mar	11-Mar		
35	Negative	Negative	Negative	Negative					12-Mar	12-Mar		
38	Positive	Negative	Negative	Negative	Negative	Negative	Negative	Negative	11-Mar	11-Mar		
39	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	11-Mar	12-Mar		
41	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	11-Mar	11-Mar		
42	Weak Positive	Negative	Weak Positive	Negative	Negative	Negative	Negative	Weak Positive	11-Mar	12-Mar		
45	Negative	Negative	Negative	Negative					11-Mar	12-Mar		
48	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	11-Mar	11-Mar		
51	Negative	Negative	Negative	Negative	Negative	Equivocal	Negative	Positive	11-Mar	12-Mar	Would repeat serum 2 if clinical test	
54	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	11-Mar	12-Mar		
58	Equivocal	Negative	Negative	Negative	Equivocal	Negative	Negative	Positive	11-Mar	11-Mar		
62	Positive	Negative	Negative	Negative	Negative	Negative	Negative	Negative	11-Mar	11-Mar		

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T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B04/2015 (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	FCXM NIBSC negative control used?	Viability (%)
9	1.92	NT	1.85	0.65	1.09	6.4			≥ Trimmed mean	Median x (log)	No	
11	73	56	58	54	54	327			60 Median log channel (Mean+2SD)	Median log channel	No	
12	179	149	167	140	121	139			Ratio ≥1.5 test serum MCF: Neg MCF	MCF	Yes	
14	753	723	695	659	585.5	2792.5			1.5x Neg	Median log channel	Yes	90
15	Median 237 RMF 1.53	183 1.18	210 1.35	162.5 1.05	155	12141			Positive = RMF >1.5	RMF	No	
	0.327	0.219	0.240	0.203	0.213	Pos 1 - 16.2 Pos 2 - 5.863			0.284 (1.33 xAv. neg)	Log median x	No	100
19												
20	0.381	0.284	0.319	0.259	0.252	1.07			40 Linear channel shift	MCF	No	90
23	5.73	4.56	5.51	4.47	4.27	46.14			+3SD	MCF	Yes	
24	300	179	198	150.5	212.5		6842	989	>1.5 RR from AB neg control	MFCN	Yes	
25	112	68	77	63	58	4375			>1.7 RMF	Median log channel	Yes	99
28	119	117	102	91	70	702			10 (≥1.6 is positive)		No	
34	5.81	5.11	4.27	4.61	4.82	27.5/9.53			6.80 Mean +2SD	Median log channel	No	
35	3.09	2.15	2.52	2.03	1.90	17.74			3.54 3SD+mean neg control	Median log channel	Yes	
38	74.1	2.9	2.9	2.9	0	348.5			46	Linear channel shift	No	
39	0.17	0.14	0.14	0.13					>1.5 RMF	Median log fluorescence		
41	233.7	179	198	166.3	186.7	17973				Mena linear channel	No	95
42	239	184	222	175	169		476	NT	RMF ratio >1.3	Median log channel	No	
45	247	228	250	226	213	550			≥253 MCV (≥40 channel shift)	Median channel shift	Yes	
48	0.46	0.41	0.42	0.40	0.39	8.40			≥1.3 RMF		Yes	
51	1.47	0.66	0.65	0.16	0.6	212			2.6			95
54	356, 352	318, 311	327, 309	267, 279	288, 292, 302	814			Test/Neg MESF ratio ≥1.2 = weak pos	Median channel shift	No	
									≥1.5 = Pos			
58	1.67	1.42	1.53	1.41	1.37	8.04			1.5x Mean (2.0)	Log median	Yes	
62	0.5435	0.369	0.456	0.348	0.34	3.925			RMF >1.5	Median log channel	Yes	99

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DESPATCHED ON 10TH MARCH 2015

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	FCXM NIBSC negative control used?	Viability (%)
11	817	712	636	162	798	2942			1276 Median log channel (Mean+2SD)	Median log channel	No	
12	1867	2183	1821	2693	1430	3482			Ratio ≥ 1.5 test serum MCF: Neg MCF	MCF	Yes	
14	4690	4482	4319	5893	4182.5	14779			1.5x Neg	Median log channel	Yes	90
15	Median 2381	2434	2715	3622	3217	21939			Positive = RMF >1.5	RMF	No	100
	RMF 0.74	0.75	0.84	1.13					12.137 (1.94 xAv. neg)	Log median x	No	
	8.788	5.847	6.956	9.322	6.256	Pos 1 - 54.070						
19												
20	8.69	7.59	6.71	11.55	3.66	8.27			40 Linear channel shift	MCF	No	90
23	19.71	14.17	31.33	36.40	14.6	149.89			+2SD	MCF	Yes	
24	1065.5	769.8	580	935.5	1363		21716	1996	>1.3 RR from AB neg control	MFCN	Yes	
25	1405	1184	1104	1818	942	10992			>1.3 RMF	Median log channel	Yes	99
28	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
34	41.9	43.15	32.7	43.25	34.47	117/104			39.83 Mean +2SD	Median log channel	No	
38	-18.1	-22.3	-10.1	46.9	0	115			47	Linear channel shift	No	
39	1.57	1.41	1.12	2.36					>2.0 RMF	Median log fluorescence	No	
41	1501.7	1631	1291.5	2102	1230.3	27386.7				Mean linear channel	No	95
42	3077	2958	3153	4509	2510		16101	4717	RMF ratio >1.5	Median log channel	No	
48	2.41	1.93	2.50	3.24	2.76	13.12			≥ 1.3 RMF		Yes	
51	7.04	17	5.35	42.6	7.7	256			17.7			90
54	603, 604, 597	603, 612, 618	606, 599, 601	650, 642, 633	603, 596, 604	817			Test/Neg MESF ratio ≥ 1.2 = weak pos	Median channel shift	No	
									≥ 1.5 = Pos			
58	6.68	4.98	5.34	8.52	4.72	14.2			1.5x Mean (7.0)	Log median	Yes	
62	9.035	6.835	6.59	12.6	6.9	52.7			RMF >3.0	Median log channel	Yes	99