

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B08/2018 UK (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 02ND OCTOBER 2018

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A11; B7, B60; Cw7, Cw10; DR7, DR15; DQ2, DQ6

		Summary of Results										
		T-cells				B-cells						
Total tested		22	21	22	22	18	18	19	19			
Positive		1	9	0	20	18	1	19	18			
Negative		21	10	21	1	0	17	0	0			
Equivocal		0	2	1	1	0	0	0	1			
NT		0	1	0	0	2	2	1	1			
% Positive		4.5%	42.9%	0.0%	90.9%	100.0%	5.6%	100.0%	94.7%			
% Negative		95.5%	47.6%	95.5%	4.5%	0.0%	94.4%	0.0%	0.0%			
% Equivocal		0.0%	9.5%	4.5%	4.5%	0.0%	0.0%	0.0%	5.3%			
Consensus		Negative	Not Assessed	Negative	Positive	Positive	Negative	Positive	Positive			
HLA Antibody Specificity (Defined By CDC)		Cw5 Cw6	A1	A29 DR7 DQ2	B44	Cw5 Cw6	A1	A29 DR7 DQ2	B44			
		T-cells				B-cells						
Lab No.	Assessment T-cells B-cells	Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
9	YES	Positive	Equivocal	Negative	Positive					03-Oct	04-Oct	
11	YES YES	Negative	Positive	Equivocal	Positive	Positive	Positive	Positive	Positive	03-Oct	01-Oct	CV of duplicates outside acceptable limits
14	YES YES	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	03-Oct	
15	YES YES	Negative	Positive	Negative	Positive	Positive	Negative	Positive	Positive	04-Oct	04-Oct	
19	YES YES	Negative	NT	Negative	Positive	NT	NT	Positive	Positive	03-Oct	04-Oct	Not tested as replicates are outside criteria
20	YES YES	Negative	Positive	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	04-Oct	
23	YES YES	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	03-Oct	
24	YES YES	Negative	Equivocal	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	04-Oct	S2 reported as equivocal. Ratio is 1.5 (Measurement of uncertainty 1.2-1.8) Would not be reported clinically.
25	YES YES	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	03-Oct	
28	YES YES	Negative	Negative	Negative	Equivocal	NT	NT	NT	NT	03-Oct	03-Oct	B cell control counts <1000
34	YES YES	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	03-Oct	
35	YES	Negative	Positive	Negative	Positive					03-Oct	03-Oct	
38	YES YES	Negative	Positive	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	03-Oct	
39	YES YES	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	03-Oct	
41	YES YES	Negative	Positive	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	03-Oct	
42	YES YES	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	04-Oct	
45	YES YES	Negative	Positive	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	03-Oct	
48	YES YES	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	04-Oct	04-Oct	
51	YES YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Equivocal	03-Oct	04-Oct	These cells were of very poor quality. Repeated in a clinical situation
54	YES YES	Negative	Positive	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	04-Oct	
58	YES YES	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	03-Oct	
62	YES YES	Negative	Positive	Negative	Positive	Positive	Negative	Positive	Positive	03-Oct	03-Oct	

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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	3.00		0.40	0.80	0.40	25.90			>1.5 x Trimmed Mean	Median x (Log)	90
11	99, 96	130, 134	109, 111	661, 618	89, 88, 92, 96	699, 4698			1.2 RMF of Negatives	Median Log Channel	
14	895	1136	950	1921	869	20580			1.5 x Mean Negative	Median Fluorescence	
15	1.06	1.72	1.1	4.43	186	15600			RMF >1.5	Median	
19	0.207		0.208	1.312	0.235	16.346				Log Median x	
20	0.367	0.555	0.363	1.821	0.326	1.515			40 Linear Channel Shift	Median Channel Fluorescence	99
23	3.2	3.2	3.6	7.2	2.82	50.9			3SD	Median Channel	
24	217.3	340.7	225.7	937.7	222	963.5, 7534.5			1.5 x Negative Value	MFCN	95
25	1.1	1.0	0.9	2.1	118	5435			RMF >1.2	Median Log Channel	
28	40	32	37	80	38	1395			Pos:Neg >= 3.1 Pos, 1.6-3.0 Equivocal	MFI	95
34	5.0	4.8	4.5	8.7	4.8	80.7			2SD	Median FL1	90
35	2.46	3.41	2.36	9.69	1.87	102.48			Mean +3SD	Median Log Channel	90
38	12.1	55.2	27.9	140.4	0	489.4			33 Linear	Linear Channel Shift	99
39	0.23	0.28	0.23	0.95	0.21	9.37			>1.5 RMF	Median Log Fluorescence	
41	309	481.3	281	1122	254.6	14079			RMF >1.6	Median	90
42	1.14	1.2	1.14	2.95	1	151.74			>1.3	RMF	
45	204	252	205	343	191	623			40	MCV	99
48	0.71	0.98	0.74	2.18	0.66	68.94			<2.3 RMF	Median	
51	4.2	3.2	2.6	4.5	5.6	17.6					90
54	299, 303	368, 365	296, 303	468, 468	250, 257, 251, 262, 275, 266	917			Test MESF > or = 1.2 x Mean AB MESF	Median Channel Shift (MCS)	
58	127	162	119	770	125	1885			1.5 x Mean	Median Fluorescence	99
62	0.458	0.589	0.389	2.065	0.351	19.85			RMF >1.5		

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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	2931, 2706	520, 600	8048, 8126	3827, 3405	380, 367, 414, 425	7469, 24162			1.5 RMF of Negatives	Median Log Channel	
14	6850	3419	15528	7003	3388	71884			1.5 x Mean Negative	Median Fluorescence	
15	2.4	0.95	5.88	2.14	1361.5	31055.5			RMF >1.5	Median	
19			11.758	5.056	1.521	48.538				Log Median X	
20	10.755	2.588	27.446	10.291	2.456	6.894			40 Linear Channel Shift	Median Channel Fluorescence	99
23	46.3	10.8	159.4	51	8.09	145.2			3SD		
24	2272.3	665.3	6574	2405.5	680.5	2057, 9906.5			2 x Negative Value	MFCN	95
25	3.2	0.4	4.6	1.6	462	11757			RMF >1.3	Median Log Channel	
28										MFI	95
34	40.9	17.6	62.6	34.7	17.8	185			2SD	Median FL1	90
38	53.6	4.9	125.5	64.5	0	314.2			40 Linear		99
39	3.42	1.13	7.80	3.71	1.08	24.75			>2.0 RMF	Median Log Fluorescence	
41	4050.6	1519.6	9857	4524.3	1321.3	23220			RMF >1.6	Median	90
42	1.74	0.57	4.88	4.9	1	245.73			>1.5	RMF	
45										MCV	99
48	6.8	2.65	19.46	8.42	1.76	103.75			>2.3 RMF		
51	16.7	2.8	30.4	10.7	4.9	30.5			11.3		90
54	664, 675	591, 582	690, 689	653, 661	600, 583, 586, 606, 584, 599	920			Test MESF > or = 1.2 x Mean AB MESF	Median Channel Shift	
58	2303	476	3417	2683	311	2909			1.5 Mean	Median Fluorescence	99
62	14.15	1.985	26.95	9.66	1.24	84.5			RMF >3		