

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B07/2018 UK (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 02ND OCTOBER 2018

HLA PHENOTYPE OF BLOOD DONOR: HLA-A11, A24; B8,B18; Cw7, Cw-; DR11, DR17; DQ2, DQ7

		Summary of Results											
		T-cells				B-cells							
Total tested		21	20	22	21	19	17	19	19				
Positive		1	9	1	0	17	3	15	10				
Negative		20	9	21	21	1	14	3	9				
Equivocal		0	2	0	0	1	0	1	0				
NT		1	2	0	1	1	3	1	1				
% Positive		4.8%	45.0%	4.5%	0.0%	89.5%	17.6%	78.9%	52.6%				
% Negative		95.2%	45.0%	95.5%	100.0%	5.3%	82.4%	15.8%	47.4%				
% Equivocal		0.0%	10.0%	0.0%	0.0%	5.3%	0.0%	5.3%	0.0%				
Consensus		Negative	Not Assessed	Negative	Negative	Positive	Negative	Positive	Not Assessed				
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	NT	Negative	Negative					03-Oct	04-Oct	Technical issues	
11	YES YES	Negative	Negative	Negative	Negative	Positive	NT	Positive	Positive	03-Oct	01-Oct	CV of duplicates outside acceptable limits	
14	YES YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Positive	03-Oct	03-Oct		
15	YES YES	Negative	Positive	Negative	Negative	Positive	Negative	Positive	Negative	04-Oct	04-Oct		
19	YES YES	Negative	Equivocal	Negative	Negative	Positive	Negative	Positive	Positive	03-Oct	04-Oct		
20	YES YES	Negative	Positive	Negative	Negative	Positive	Negative	Positive	Positive	03-Oct	04-Oct		
23	YES YES	Negative	Negative	Positive	Negative	Positive	Positive	Positive	Positive	03-Oct	03-Oct		
24	YES YES	Negative	Positive	Negative	Negative	Positive	Positive	Positive	Negative	03-Oct	04-Oct		
25	YES YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	03-Oct	03-Oct		
28	YES YES	NT	NT	Negative	NT	Negative	NT	Equivocal	Negative	03-Oct	03-Oct		Samples not reported due to low binding
34	YES YES	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	03-Oct	03-Oct		
35	YES	Negative	Positive	Negative	Negative					03-Oct	03-Oct		
38	YES YES	Negative	Positive	Negative	Negative	Positive	Negative	Positive	Negative	03-Oct	03-Oct		
39	YES YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Positive	03-Oct	03-Oct		
41	YES YES	Negative	Positive	Negative	Negative	Positive	Negative	Positive	Positive	03-Oct	03-Oct		
42	YES YES	Negative	Positive	Negative	Negative	Positive	Positive	Positive	Positive	03-Oct	04-Oct		
45	YES YES	Negative	Positive	Negative	Negative	Equivocal	Negative	Negative	Negative	03-Oct	03-Oct		
48	YES YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Positive	04-Oct	04-Oct		
51	YES YES	Negative	Equivocal	Negative	Negative	Positive	Negative	Negative	Negative	03-Oct	04-Oct	These cells were of very poor quality. Repeated in clinical situation	
54	YES YES	Negative	Positive	Negative	Negative	Positive	Negative	Positive	Negative	03-Oct	04-Oct		
58	YES YES	Negative	Negative	Negative	Negative	NT	NT	NT	NT	03-Oct	03-Oct	Insufficient B cells collected for valid result	
62	YES YES	Negative	Negative	Negative	Negative	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	1.8		0.4	0.4	0.48	8.6			>1.5 x Trimmed Mean	Median x (Log)	90
11	96, 90	103, 120	93, 92	96, 75	97, 97, 96, 102	173, 3651			1.2 RMF of negatives	Median Log Channel	
14	1.34	1105	940	924	850	11697			1.5 x Mean Negative	Median Fluorescence	
15	249.5	371	255	228	232.5	11235.5			RMF>1.5	Median	
19	0.209	0.315	0.193	0.208	0.229	5.311				Log Median x	
20	0.332	0.487	0.315	0.337	0.322	1.237			40 Linear Channel Shift	Median Channel Fluorescence	96
23	4.8	4.2	8.2	3.9	3.8	35.5			3SD	Median Channel	
24	194	336.3	215.3	187.3	189	839.5, 4496			1.5 x Negative Value	MFCN	90
25	0.9	1.1	1	0.8	141	3928			RMF >1.2	Median Log Channel	
28	13	16	23	16	25	935			Ratio Neg:Pos >/= 3.1 Equiv: 1.6-3.0	MFI	95
34	10.8	10.7	9.4	9.5	10.3	63.6			2 SD	Median FL1	90
35	2.29	3.02	1.98	2.04	2.26	77.65			Mean +3SD	Median Log Channel	90
38	31.5	84	11.7	6.2	0	495.8			33 linear channel	Linear Channel Shift	99
39	0.23	0.27	0.22	0.22	0.23	2.04			>1.5 RMF	Median Log Fluorescence	
41	251.6	352.6	227	226.3	213	9558			RMF >1.6	Median	90
42	1.23	1.38	1.10	1.08	1	84.05			>1.3	RMF	
45	218	232	224	198	191	492			40	MCV	99
48	0.57	0.73	0.62	0.61	0.58	4.83			>2.3 RMF	Median	
51	6.5	8.1	4.1	6.7	5.9	12.5			8.42		90
54	293, 294	358, 354	285, 283	261, 246	249, 243, 260, 250, 250	869			Test MESF > or = 1.2 x mean AB MESF	Median Channel Shift (MCS)	
58	124	156	102	98	116	1203			1.5 x Mean	Median Fluorescence	90
62	0.414	0.502	0.381	0.39	0.375	1.495			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	3889, 3994		1593, 1514	1913, 629	348, 360, 430, 402	16621, 41476			1.5 RMF of Negatives	Median Log Channel	
14	8141	3156	5628	4497	2636	62254			1.5 x Mean Negative RMF >1.5	Median Fluorescence	
15	4157.5	1448.5	2473.5	1522.5	1109.5	27456				Median	
19	9.077	2.485	3.312	4.377	1.643	52.630				Log Median X	
20	10.675	2.279	4.385	4.847	1.613	6.462			40 Linear Channel Shift	Median Channel Fluorescence	96
23	86.9	20.9	51.4	37.5	15.7	122			2SD		
24	1370	777	1518	455.5	374	2129, 10347			2 x Negative Value	MFCN	90
25	3.6	0.7	1.7	0.4	491	9783			RMF>1.3	Median Log Channel	
28	67	21	120	35	49	1032			Ratio Neg:Pos >/= 3.6 Equiv:2.0-3.5	MFI	95
34	19.4	12.1	12.6	11.8	10.5	51.1			2SD	Median FL1	90
38	70.9	20.3	44.6	6	0	290			40 Linear Channel		
39	4.51	1.18	2.06	2.01	0.78	25.25			>2.0 RMF	Median Log Fluorescence	
41	3150.6	1106	1603	1729.6	889	22760			RMF >1.6	Median	90
42	7.24	1.84	2.02	2.54	1	246.36			>1.5	RMF	
45										MCV	99
48	3.23	1.81	3.57	4.02	1.01	20.66			>2.3 RMF		
51	12.4	6.9	5.3	6.2	4.1	12.9			10.57		
54	677, 674	615, 613	616, 605	638, 634	588, 588, 580, 590, 579, 602	941			Test MESF > or = 1.2 x Mean SB MESF	Median Channel Shift	
58										Median Fluorescence	90
62	14.75	2.71	6.08	6.05	1.183	42.15			RMF >3		