

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B01/2018 UK (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 27 FEBRUAR'

HLA PHENOTYPE OF BLOOD DONOR: HLA-A11, A24; B51, B61; Cw2, Cw9; DR4, DR14; DQ5, DQ8

Summary of Results												
T-cells					B-cells							
Total tested	19	20	20	20	16	17	17	17				
Positive	6	0	19	19	3	3	17	15				
Negative	10	20	1	1	12	14	0	2				
Equivocal	3	0	0	0	1	0	0	0				
NT	3	2	2	2	4	3	3	3				
% Positive	31.6%	0.0%	95.0%	95.0%	18.8%	17.6%	100.0%	88.2%				
% Negative	52.6%	100.0%	5.0%	5.0%	75.0%	82.4%	0.0%	11.8%				
% Equivocal	15.8%	0.0%	0.0%	0.0%	6.3%	0.0%	0.0%	0.0%				
Consensus	Not Assessed	Negative	Positive	Positive	Negative	Negative	Positive	Positive				
HLA Antibody Specificity (Defined By CDC)	A1	B12	B7	A1 A11 DR15	A1	B12	B7	A1 A11 DR15				
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	Equivocal	Negative	Positive	Positive					28-Feb	01-Mar		
11	NT	Negative	Positive	Positive	NT	Negative	Positive	Positive	28-Feb	28-Feb		
14	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	28-Feb	28-Feb		
15	Negative	Negative	Positive	Positive	Negative	Negative	Positive	Positive	28-Feb	01-Mar		
19	Negative	Negative	Positive	Positive	Negative	Negative	Positive	Positive	01-Mar	01-Mar		
20	Positive	Negative	Positive	Positive	Positive	Negative	Positive	Positive	28-Feb	05-Mar		
23	Negative	Negative	Positive	Positive	Negative	Negative	Positive	Positive	28-Feb	28-Feb		
24	NT	NT	NT	NT	NT	NT	NT	NT	05-Mar	NT	Delayed delivery	
25	Positive	Negative	Positive	Positive	Negative	Negative	Positive	Positive	28-Feb	28-Feb		
28	NT	NT	NT	NT	NT	NT	NT	NT	05-Mar	NT	Delayed delivery	
34	Equivocal	Negative	Positive	Positive	Equivocal	Negative	Positive	Positive	28-Feb	28-Feb		
35	Positive	Negative	Positive	Positive					01-Mar	01-Mar		
38	Positive	Negative	Positive	Positive	Negative	Negative	Positive	Positive	28-Feb	28-Feb		
39	Negative	Negative	Positive	Positive	Negative	Negative	Positive	Positive	28-Feb	28-Feb		
41	Negative	Negative	Positive	Positive	Negative	Negative	Positive	Positive	28-Feb	28-Feb		
42	Negative	Negative	Positive	Positive	Negative	Negative	Positive	Positive	27-Feb	28-Feb		
45	Negative	Negative	Positive	Positive	Negative	Negative	Positive	Negative	28-Feb	01-Mar		
48	Positive	Negative	Positive	Positive	Positive	Positive	Positive	Positive	28-Feb	28-Feb		
51	Equivocal	Negative	Positive	Positive	NT	NT	NT	NT	28-Feb	05-Mar	Delayed delivery	
54	Positive	Negative	Positive	Positive	Negative	Negative	Positive	Positive	28-Feb	01-Mar		
58	Negative	Negative	Positive	Positive	Positive	Positive	Positive	Positive	28-Feb	28-Feb		
62	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Positive	28-Feb	28-Feb		

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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	0.90	0.72	1.90	1.50	0.59	11.50			> 1.5 x Trimmed Mean	Median x (Log)	90
11	Not Tested	106	371	453	126, 140, 120, 124	232, 408			1.2 RMF	Median Log Fluorescence	
14	753	645	896	911	644	7329			1.5 x Mean Neg	Median Log Channel	
15	1.4	0.98	2.34	2.35	260	10941			RMF >1.5	Median	
19	0.297	0.214	0.481	0.501	0.246	5.22				Log Median x	
20	0.688	0.409	1.157	1.352	0.39	2.699			40 Linear Channel Shift	Median Channel Fluorescence	95
23	3.76	2.65	8.81	10.79	3.86	57.25			+3SD	Median Channel Fluorescence	
24	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Not Tested	MFCN	N/A
25	151	97	292	435	103	5924			RMF >1.2	Median Log Channel	
28	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Not Tested	N/A	
34	9.93	8.91	10.6	10.3	9.11	52			+2 SD (9.82)	Median FL1	
35	3.6	2.12	5.77	5.76	2.47	3.02			3.20 (+3 SD)	Median Log Channel	80
38	37.7	-6.5	79.9	150.1	0	484.9			33 Linear Channel Shift	Linear Channel Shift	90
39	0.17	0.14	0.26	0.26	0.14	1.45			>1.5 RMF	Median Log Fluorescence	
41	235	155	323	398	184	7825			RMF >1.6	Median Fluorescence	98
42	1.13	0.82	1.73	2.22	1	49.48			>1.3	RMF	
45	232 MCV	204 MCV	266 MCV	268 MCV	218	534 MCV			40 Channel Shift (258)	Median Channel Value	
48	0.78	0.45	1.22	1.38	0.48	20.65			>1.3 RMF	Median	N/A
51	6.2	3.9	8.5	7.3	4.6	105			7.1 (2.5 Channel Shift)		80
54	319, 319	215, 219	381, 370	372, 376	255, 238, 247, 242	837			Test/neg MESF Ratio > or = 1.2 - Weak Pos > or = 1.5 - Pos	Median Channel Shifts	NT
58	221	198	366	424	144	1222			1.5 x Neg Mean	Median Fluorescence	
62	0.492	0.402	0.879	0.962	0.35	1.88			RMF > 1.5	Log Median Fluorescence Intensity	99

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9											90
11	Not Tested	928.00	4172.00	3332.00	1195	1295	111,026	16,662	1.5 RMF	Median Log Fluorescence	
14	2985.00	2864.00	4856.00	4008.00	2833.00	25114.00			1.5 x Mean Neg	Median Log Channel	
15	1.20	0.85	3.10	2.33	Median 1129.5	Median 30409.5			RMF >1.5	Median	
19	2.54	1.81	4.96	3.89	1.67	29.30				Log Median x	
20	5.46	3.55	14.09	9.86	3.10	18.37			40 linear channel shift		95
23	26.80	13.30	94.60	60.40	27.10	236.00			+2SD		
24	Not tested	Not tested	Not tested	Not tested	Not tested	Not tested			Not tested		N/A
25	1090.00	1005.00	2473.00	2226.00	952.00	11398.00			RMF >1.3	Median Log Channel	
28	Not tested	Not tested	Not tested	Not tested	Not tested	Not tested			Not tested		
34	30.63	19.33	46.87	42.34	29.42	115.00			+2 SD (37.16)	Median FL1	
35										Median Log Channel	80
38	25.90	15.00	49.00	48.90	0.00	229.90			40		90
39	0.73	0.27	2.06	1.41	0.57	7.72			>2.0 RMF	Median Log Fluorescence	
41	847.00	531.00	1882.00	1639.00	750.00	12231.00			RMF >1.6	Median Fluorescence	98
42	1.20	0.88	3.32	2.78	1.00	34.29			>1.5	RMF	
45	438 MCV	431 MCV	493 MCV	472 MCV	443 MCV	695 MCV			40 Channel Shift (483)		
48	3.42	2.48	10.43	7.48	1.43	36.78			>1.3 RMF		N/A
51	NT	NT	NT	NT	NT	NT			NT		80
54	621, 612	646, 627	641, 651	658, 619	590, 594, 556	908			Test/neg MESF Ratio > or = 1.2 - Weak Pos	Median Channel Shifts	
58	1292	1373	2589	1918	523	4015			> or = 1.5 - Pos		NT
62	3.285	3.945	12.75	6.625	1.17	55.85			1.5 x Neg Mean		
									>3.0	Log Median Fluorescence Intensity	99