

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B08/2017 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 04 July 2017

HLA PHENOTYPE OF BLOOD DONOR: HLA-A1, A25; B18, B27; Cw7, Cw12; DR13, DR15; DQ6, DQ-

		Summary of Results										
		T-cells				B-cells						
Total tested		22	22	20	21	17	19	15	18			
Positive		0	0	16	0	7	0	12	0			
Negative		22	22	4	21	10	19	3	18			
NT/Equivocal		0	0	2	1	5	3	7	4			
% Positive		0.0%	0.0%	80.0%	0.0%	41.2%	0.0%	80.0%	0.0%			
% Negative		100.0%	100.0%	20.0%	100.0%	58.8%	100.0%	20.0%	100.0%			
Consensus		Negative	Negative	Positive	Negative	Not Assessed	Negative	Positive	Negative			
HLA Antibody Specificity (Defined By CDC)		B44	A2	B7	DR4 DR9	B44	A2	B7	DR4 DR9			
		T-cells				B-cells				Date Received	Date Tested	Comments
Lab No.		Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4			
9		Negative	Negative	Positive	Negative	NT	NT	NT	NT	05-Jul	06-Jul	
11		Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	05-Jul	06-Jul	
14		Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	05-Jul	05-Jul	
15		Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	05-Jul	06-Jul	
19		Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	05-Jul	06-Jul	
20		Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	05-Jul	06-Jul	
23		Negative	Negative	Positive	Negative	Negative	Negative	Positive	Negative	05-Jul	05-Jul	
24		Negative	Negative	Positive	Negative	Negative	Negative	Positive	Negative	05-Jul	06-Jul	
25		Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	05-Jul	05-Jul	
28		Negative	Negative	Equivocal	Negative	Negative	Negative	Equivocal	Negative	05-Jul	05-Jul	
34		Negative	Negative	Equivocal	Negative	Equivocal	Negative	Equivocal	Negative	05-Jul	05-Jul	
35		Negative	Negative	Positive	Negative	NT	NT	NT	NT	05-Jul	06-Jul	
38		Negative	Negative	Positive	Negative	Negative	Negative	Equivocal	Negative	05-Jul	05-Jul	
39		Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	05-Jul	05-Jul	
41		Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	05-Jul	05-Jul	
42		Negative	Negative	Positive	Negative	Negative	Negative	Equivocal	Negative	05-Jul	05-Jul	
45		Negative	Negative	Positive	Negative	NT	NT	NT	NT	05-Jul	05-Jul	
48		Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	05-Jul	05-Jul	
51		Negative	Negative	Positive	Equivocal	Negative	Negative	Positive	Equivocal	05-Jul	06-Jul	
54		Negative	Negative	Positive	Negative	Negative	Negative	Negative	Negative	06-Jul	06-Jul	
58		Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	05-Jul	05-Jul	
62		Negative	Negative	Positive	Negative	Equivocal	Negative	Positive	Negative	05-Jul	05-Jul	

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B08/2017 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 04 July 2017

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	1.04	0.84	4.73	0.55	1.89	21.6			>1.5 x trimmed mean	Median x (log)	95
11	170	157	257.5	172.5	156, 178, 175	250, 407			1.2 RMF	Median Log Fluorescence	
14	502	506.5	685	528.5	473.5	2600			1.5 x mean negative	Median Log Channel	
15	0.96	0.95	2.38	0.93	210	19163			RMF >1.5	Median	
19	0.228	0.225	0.518	0.228	0.233	4.682				Log Median X	
20	0.412	0.393	1.02	0.403	0.406	1.22			40 LCS		
23	3.71	3.69	5.83	4.66	3.58	24.8			+3SD		
24	126	122	235	133	151	3400, 376			1.5 x negative		
25	56	56	117	48	57	1556			RMF >1.2	Median Log Channel	
28	71	83	112	75	56	730			≥1.6-3 equivocal, ≥3.1 positive	MFI	
34	13.13	12.47		11.5	13.53	92.8			16.5	Median FL1	95
35	1.8	1.79	3.91	1.71	1.92	2.46			2.70 (+3SD)	Median Fluorescence	90
38	23.1	20.9	119.2	7.3	0	482.3			33	Linear Channel Shift	
39	0.16	0.16	0.23	0.16	0.17	0.77			>1.5 RMF	Median Log Fluorescence	
41	0.96	1	1.48	0.98	139	5930			>1.6 RMF	Median	90
42	1.05	1.03	1.33	1.1	1	72.87			>1.3		
45	167	163	222	163	168	501			40 channel shift	MCV	
48	0.6	0.59	0.71	0.59	0.59	1.95			>1.3 RMF		
51	4.91	4.53	9.1	5.9	4	143					
54	193, 212	211, 201	357, 349	189, 210	227, 215, 215, 211, 220	633			Test/neg ratio ≥1.2 (weak pos) ≥1.5 (pos)	Median Channel Value	
58	190	207	297	192	183	774			1.5 x negative mean		
62	0.43	0.44	0.72	0.41	0.4	1			RMF >1.5	Median Log Channel	99

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

B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B08/2017 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 04 July 2017

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	95
11	2776	1543	3038	1711	1578, 1671, 1683	8854, 18487			1.2 RMF	Median Log Fluorescence	
14	2306.5	1976.5	2528	1955.5	1928	8722			1.5 x mean negative	Median Log Channel	
15	1.52	1.02	1.94	0.92	1441	35822			RMF >1.5	Median	
19	4.397	3.268	4.689	2.818	2.076	35.429				Log Median X	
20	7.21	3.5	9.67	3.52	2.89	8.48			40 LCS		
23	4.28	3.85	6.17	5.8	4.71	68.8			+2SD		
24	766	288	1503	442	504	12107, 735			1.5 x negative		
25	611	367	757	176	367	8389			RMF >1.3	Median Log Channel	
28	128	106	199	105					≥1.9-3.5 equivocal, ≥3.5 positive	MFI	
34		7.15		6.9	6.17	57.6			9.87	Median FL1	95
35										Median Fluorescence	90
38	-17.9	-16	37.8	-28.5	0	267.5			40 linear channel shift	Linear Channel Shift	
39	0.86	0.42	1	0.45	0.46	7.48			>2 RMF	Median Log Fluorescence	
41	1.16	0.67	1.54	0.62	542	16446			>1.6 RMF	Median	90
42	1.12	0.89	1.36	0.85	1	126.88			>1.5		
45										MCV	
48	1.74	0.93	1.64	0.96	1.09	6.84			>1.3 RMF		
51	8.95	7.21	19.1	12.2	7.53	220					
54	575, 551, 584	541, 555, 540	582, 594, 581	563, 561, 550	542, 580, 555, 538, 560, 551	771			Test/neg MESF ratio ≥1.2 (weak pos) ≥1.5 (pos)	Median Channel Value	
58	1232	681	1774	660	717	4764			1.5 x negative mean		
62	4.7	2.1	5.6	2	1.49	28.7			RMF >3	Median Log Channel	99