

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B02/2017 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 17TH JANUARY 2017

HLA PHENOTYPE OF BLOOD DONOR: HLA-A3, A26; B13, B27; Cw2, Cw6; DR1, DR7; DQ2, DQ5

		Summary of Results											
		T-cells				B-cells							
Total tested		20	20	20	19	14	15	18	18				
Positive		17	17	18	19	5	8	18	18				
Negative		3	3	2	0	9	7	0	0				
NT/Equivocal		2	2	2	3	5	4	1	1				
% Positive		85.0%	85.0%	90.0%	100.0%	35.7%	53.3%	100.0%	100.0%				
% Negative		15.0%	15.0%	10.0%	0.0%	64.3%	46.7%	0.0%	0.0%				
Consensus		Positive	Positive	Positive	Positive	Not Assessed	Not Assessed	Positive	Positive				
HLA Antibody Specificity (Defined By CDC)		B57	A11	B44	A2, A28, A9	B57	A11	B44	A2, A28, A9				
		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	Viability (%)	Comments
9		Positive	Positive	Positive	Equivocal					18-Jan	19-Jan	95	
11		Positive	Positive	Positive	Positive	Positive	Positive	Positive	Positive	18-Jan	19-Jan		
14		Positive	Positive	Positive	Positive	Positive	Positive	Positive	Positive	17-Jan	18-Jan		
15		Positive	Positive	Positive	Positive	Negative	Negative	Positive	Positive	17-Jan	17-Jan		
19		Positive	Positive	Positive	Positive	Equivocal	Positive	Positive	Positive	17-Jan	18-Jan		
20		Positive	Positive	Positive	Positive	Positive	Positive	Positive	Positive	18-Jan	19-Jan	90	
23		Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	18-Jan	18-Jan		
24		Negative	Negative	Positive	Positive	Equivocal	Negative	Positive	Positive	18-Jan	19-Jan	95	
25		Positive	Positive	Positive	Positive	Equivocal	Equivocal	Positive	Positive	18-Jan	19-Jan		
28		Equivocal	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal	Positive	Positive	18-Jan	18-Jan	99	
34		Positive	Positive	Positive	Positive	Negative	Negative	Positive	Positive	18-Jan	18-Jan		
35		Positive	Positive	Positive	Positive					18-Jan	19-Jan	90	
38		Positive	Positive	Positive	Positive	Negative	Negative	Positive	Positive	18-Jan	19-Jan	98	
39		Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	18-Jan	18-Jan		
41		Positive	Positive	Positive	Positive	Positive	Positive	Positive	Positive	18-Jan	18-Jan	95	
42		Positive	Positive	Positive	Positive	Negative	Positive	Positive	Positive	18-Jan	18-Jan		
45		Positive	Positive	Positive	Positive					18-Jan	19-Jan		
48		Positive	Positive	Positive	Positive	Negative	Positive	Positive	Positive	18-Jan	18-Jan		
51		Positive	Positive	Positive	Positive	Positive	Positive	Positive	Positive	18-Jan	19-Jan	95	
54		Positive	Positive	Positive	Positive	Negative	Negative	Positive	Positive	18-Jan	19-Jan		
58		NT	NT	NT	NT	NT	NT	NT	NT	18-Jan	18-Jan		Results invalid
62		Positive	Positive	Positive	Positive	Negative	Equivocal	Positive	Positive	18-Jan	18-Jan	99	

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B02/2017 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 17TH JANUARY 2017

Lab No.	Serum 1		Serum 2		Serum 3		Serum 4		MoU Range	Negative control (local)	Positive control (local)	Strong positive (local)	Weak positive (local)	Positive result value	Cytometer reading units
	cytometer reading	Within MoU	cytometer reading	Within MoU	cytometer reading	Within MoU	cytometer reading	Within MoU							
9	4.19	No	3.24	No	2.68	No	1.33	Yes		0.82	21.8			>1.5x trimmed mean	Median X (log)
11	274, 269		237, 248		205, 192		295, 342			99, 111, 135, 120	222, 385			139.5 (1.2RMF)	Median log fluorescence
14	1655.5	No	1595	No	1899.5	No	1870.5	No	820-1126	648.5	9584			1.5x mean neg	Median log channel
15	2.74	Yes	3.1	Yes	3.59	Yes	3.34	Yes	±6%	218	10241.5			RMF >1.5	Median
19	0.674		0.686		0.506		1.679			0.225	8.402				Log median X
20	1.182	No	1.097	No	1.072	No	1.372	No	20-60 LCS	0.407	0.992			40 linear channel shift	Linear channel
23	7.38	Yes	8.1	Yes	6.04	Yes	20.28	Yes	20%	5.94	50.15			+3SD	Median channel fluorescence
24	134	No	155	Yes	165	Yes	246	No	1.4-2.0	101	183, 465			1.5x neg	MFCN
25	132	No	164	No	217	No	534	No	1.2-1.4	60	2092			RMF >1.3	Median log channel
28	151 (2.7)		119 (2.1)		159 (2.8)		144 (2.6)			56	825			≥1.6-3 Equivocal	MFI
														≥3.1 Pos	
34	14.4	No	14.4	No	12.4	No	17.95	No	8.49-11.73	10.11	115			+2SD (12.08)	Median FL1
35	4.56	No	5.24	No	4.22	No	8.08	No	±6.39%	2.25	56.47			Mean of neg control +3SD	Median log channel
38	94.8	No	85.7	No	124.6	No	127.2	No	2.27	0	436.3			33 linear channel shift	Linear channel shift
39	0.23		0.21		0.22		0.29			0.16	0.91			>1.5 RMF	Median log fluorescence
41	987		1694		1444		1190			230	3538			1.6x neg RMF	Median RMF
42	2.19	Yes	2.25	Yes	2.28	Yes	2.84	Yes	1SD	1	72.69			>1.3	RMF
45	294		277		314		301			189	564			40 channel shift (229)	Median channel value
48	0.86	Yes	0.82	Yes	1.11	Yes	1.03	Yes		0.52	2.79			>1.3 RMF	Median log channel
51	12.8		14		15.4		18.4			5.35	126			7.8	
54	378, 386		367, 378		428, 428		421, 406			198, 222, 211, 221, 213, 200	781			≥1.2x MESF of neg control	Median channel value
58	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
62	1.19	Yes	1.28	Yes	1.14	Yes	1.625	Yes		0.4453	4.81			RMF >1.5	Median log channel

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

B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B02/2017 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 17TH JANUARY 2017

Lab No.	Serum 1 cytometer reading Within MoU		Serum 2 cytometer reading Within MoU		Serum 3 cytometer reading Within MoU		Serum 4 cytometer reading Within MoU		MoU Range	Negative control (local)	Positive control (local)	Strong positive (local)	Weak positive (local)	Positive result value	Cytometer reading units
11	2206, 2381		2495, 2554		7582, 7170		5202, 5769			1671, 1876, 1786, 616	5578, 9548			2084.7 (1.2RMF)	Median log fluorescence
14	4680.5	No	5472	No	10897	No	9560	No	3290-4524	2604.5	17972.5			1.5x mean neg	Median log channel
15	1.09	Yes	0.81	Yes	1.95	Yes	2.42	Yes	±11%	2307	17654			RMF >1.5	Median
19	4.3		6.59		14.5		11.01			3.2	29.6				Log median X
20	3.265	No	4.425	No	17.97	No	18.675	No	14-66 LCS	1.518	6.065			40 linear channel shift	Linear channel
23	11.5	Yes	10	Yes	19.69	Yes	42.46	Yes	18%	9.9	96.03			+2SD	Median channel fluorescence
24	333	Yes	256	Yes	685	No	1157	No	1.3-2.0	184	311, 1101			2x neg	MFCN
25	212	Yes	435	Yes	2271	No	3480	No	1.1-1.5	342	5193			RMF >1.3	Median log channel
28	241 (2.5)		217 (2.3)		674 (7.1)		573 (6.0)			95	1060			≥2.0-3.5 Equivocal	MFI
34	32.53	Yes	33.80	Yes	66.90	No	61.33	No	15.6-46.8	31.2	247			≥3.6 Pos	Median FL1
38	25.8	No	4.6	No	40.5	Yes	77.1	No	4.76	0	265.5			+2SD (38.65)	Linear channel shift
39	0.34		0.36		1.23		1.39			0.25	3.82			>2 RMF	Median log fluorescence
41	1527		2341		3640		2652			820	4628			1.6x neg RMF	Median RMF
42	1.11	Yes	1.53	Yes	2.88	Yes	3.63	Yes	1SD	1	43.42			>1.5	RMF
48	1.13	Yes	1.55	Yes	3.95	Yes	4.06	Yes		0.9	7.34			>1.3 RMF	Median log channel
51	29.6		29.4		35.2		85.1			10.93	166			15.9	
54	590, 599, 603		601, 604, 601		654, 661, 661		683, 683, 678			575, 584, 587, 576, 574, 596	842			≥1.2x MESF of neg control	Median channel value
58	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
62	2.91	Yes	4.04	Yes	10.9	Yes	18.05	Yes		1.38	40.85			RMF >3	Median log channel