

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B09/2015 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 15TH SEPTEMBER 2015

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A30; B18, B44; Cw4, Cw5; DR7, DR17; DQ2, -

Summary of Results												
T-cells					B-cells							
Total tested	22	21	22	22	19	18	19	19				
Positive	0	1	1	0	19	18	19	0				
Negative	22	20	21	22	0	0	0	19				
NT/Equivocal	1	2	1	1	1	2	1	1				
% Positive	0.0%	4.8%	4.5%	0.0%	100.0%	100.0%	100.0%	0.0%				
% Negative	100.0%	95.2%	95.5%	100.0%	0.0%	0.0%	0.0%	100.0%				
Consensus	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative				
HLA Antibody Specificity (Defined By CDC)	DR3	A3, A11, DR7	DR7, DQ2	DR1	DR3	A3, A11, DR7	DR7, DQ2	DR1				
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	Positive	Negative	Negative						16-Sep	16-Sep	
11	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	17-Sep	
12	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	16-Sep	
14	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	16-Sep	
15	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		17-Sep	17-Sep	
19	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	17-Sep	
20	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	16-Sep	
23	Negative	Equivocal	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	16-Sep	
24	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	17-Sep	
25	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	16-Sep	
28	Negative	Negative	Weak Positive	Negative	Positive	Positive	Positive	Negative		16-Sep	16-Sep	
34	Negative	Negative	Negative	Negative	Positive	Equivocal	Positive	Negative		16-Sep	16-Sep	
35	Negative	Negative	Negative	Negative						16-Sep	17-Sep	
38	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	16-Sep	
39	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	16-Sep	
41	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	16-Sep	
42	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	17-Sep	
45	Negative	Negative	Negative	Negative						16-Sep	16-Sep	
48	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		17-Sep	17-Sep	
51	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	17-Sep	
54	NT	NT	NT	NT	NT	NT	NT	NT				Samples did not arrive - Lost in the post
58	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	16-Sep	
62	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative		16-Sep	16-Sep	

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T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B09/2015 (COMPARED TO LOCAL NEGATIVE CONTROL)

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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	FCXM NIBSC negative control used?	Viability (%)
9	0.71	1.80	0.70	0.77	1.02	33.61			>1.5x trimmed mean	Median log channel	No	100
11	45	54	50	44	49	144			>54 (mean +2SD)	Median log channel	No	90
12	0	15	0	0	113	236			MCS >50	Mean channel shift	Yes	
14	698	699	663	746	628	4024			1.5x Negative median log channel	Median log channel	Yes	
15	Median 199.5 RMF 0.91	247	213	216.5	219	2509.5			RMF >1.5		No	
19	0.231	0.29	0.241	0.246	0.248	8.948				Log median x	No	
20	0.351	0.463	0.373	0.375	0.331	0.728			≥40 linear channel shift	Median log channel	No	90
23	2.19	2.98	3.31	3.38	3.08	33.98			+3SD	Median channel fluorescence	Yes	
24	231	274	257	237	253		2083	523	>1.5 RR compared to AB negative	MFCN	Yes	90
25	67	85	70	68	70	4846			RMF >1.3	Median log channel	Yes	
28	65	66	77	61	46	875			Ratio ≥1.6 vs negative control	MFI	No	
34	11.1	11.4	8.7	9.1	10.4	53.1			Mean ±2SD (12.5)		No	90
35	1.52	1.67	1.46	1.44	1.29	4.64			1.68 3x SD+mean of neg control	Median log channel	Yes	
38	0	45.1	0	0	0	349.7			>46	Linear channel shift	Yes	100
39	0.2	0.22	0.21	0.2	0.2	3.24			≥1.5 RMF	Median log fluorescence	No	
41	172	197	175	180	175	10596			RMF ≥1.5	Median log channel	No	98
42	166	198	175	162	189		5612	311	RMF ratio >1.3	Mean log channel	No	
45	182	203	184	185	192	577			≥232 MCV (≥40 channel shift)	Median channel value	Yes	
48	0.4	0.45	0.42	0.42	0.43	7.71			≥1.3 RMF		Yes	
51	3.34	3.8	3.41	3.51	3.89	192			5.9		No	
54	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
58	1.17	1.25	1.22	1.2	1.17	3			1.20 (2SD)	Log median	Yes	
62	0.43	0.522	0.458	0.44	341	2.56			RMF >1.5	Median log channel	Yes	95

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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	FCXM NIBSC negative control used?	Viability (%)
11	1412	987	3226	366	369	5419			>590 (-1.6 RMF)	Median log channel	No	90
12	121	91	190	27	767	2338			MCS >50	Mean channel shift	Yes	
14	6607	5435	11250	433	3193	16810			1.5x Negative median log channel	Median log channel	Yes	
15	Median 4332 RMF 2.88	3559 2.36	9231 6.13	1372 0.91	1505	30328.5			RMF >1.5		No	
19	9.071	7.18	15.841	3.117	3.896	52.63				Log median x	No	
20	16.41	11.43	39.07	2.06	2.88	6.5			≥40 linear channel shift	Median log channel	No	90
23	16.94	17.77	55.57	4.44	5.11	116.5			+2SD	Median channel fluorescence	Yes	
24	5394	4618	14081	871	1497		17775	1857	≥2 RR compared to AB negative	MFCN	Yes	90
25	2507	1508	4828	410	802	13226			RMF >1.3	Median log channel	Yes	
28	403	267	861	106	66	1000			Ratio ≥2 vs negative control	MFI	No	
34	20.3	16.9	30.9	11	12.4	52.6			Mean ±2SD (16.2)		No	90
38	130.1	115.3	203.4	5.6	0	385.9			>63	Linear channel shift	Yes	100
39	3.45	2.4	7.43	0.58	0.74	14.1			≥2 RMF	Median log fluorescence	No	
41	3010	1937	5890	626	833	21654			RMF ≥1.5	Median log channel	No	98
42	1884	1713	4437	372	841		31242	2248	RMF ratio >1.5	Mean log channel	No	
48	3.73	2.56	7.22	1.1	1.74	18.31			≥1.3 RMF		Yes	
51	34.4	28.9	75.3	5.7	6.82	259			11.8		No	
54	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
58	9.14	7.56	22.7	3	3.21	38			3.7 (2SD)	Log median	Yes	
62	8.23	7.07	23.1	1.25	1.48	36.25			RMF >3	Median log channel	Yes	95