

UK NEQAS FOR H&I SCHEME 2B - CROSSMATCHING BY FLOW CYTOMETRY

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B10/2014 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 23RD SEPTEMBER 2014

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2,A24; B8,B44; Cw7,Cw16; DR11,-; DQ7,-

Summary of Results

Total tested	20	21	21	19
Positive	17	19	17	2
Negative	3	2	4	17
Not Tested	2	2	2	2
% Positive	85.0%	90.5%	81.0%	10.5%
% Negative	15.0%	9.5%	19.0%	89.5%

Consensus	Positive	Positive	Positive	Negative
HLA Antibody (Defined By CDC)	A3,A11+	B12	B57	A11

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
9	Positive	Positive	Positive	Negative	24-Sep	25-Sep	
11	Positive	Positive	Positive	Equivocal	24-Sep	25-Sep	
12	NT	NT	NT	NT	25-Sep	NT	NT - Late arrival of the samples
14	Positive	Positive	Positive	Negative	24-Sep	24-Sep	
15	Positive	Negative	Positive	Negative	24-Sep	24-Sep	
19	Positive	Positive	Positive	Negative	24-Sep	25-Sep	
20	Positive	Positive	Positive	Positive	24-Sep	26-Sep	
23	NT	NT	NT	NT	25-Sep	NT	NT - Late arrival of the samples
24	Negative	Positive	Negative	Negative	24-Sep	25-Sep	
25	Positive	Positive	Positive	Negative	24-Sep	25-Sep	
28	Negative	Positive	Negative	Negative	24-Sep	24-Sep	
34	Positive	Positive	Positive	Negative	26-Sep	26-Sep	Cell lysis was noted in separation phase
35	Positive	Negative	Negative	Equivocal	24-Sep	25-Sep	
38	Positive	Positive	Positive	Negative	24-Sep	24-Sep	
39	Positive	Positive	Positive	Negative	24-Sep	24-Sep	
41	Negative	Positive	Negative	Negative	24-Sep	24-Sep	
42	Weak Positive	Positive	Positive	Negative	24-Sep	25-Sep	
45	Positive	Positive	Positive	Negative	24-Sep	25-Sep	
48	Positive	Positive	Positive	Negative	24-Sep	25-Sep	
51	Equivocal	Positive	Positive	Negative	24-Sep	25-Sep	
54	Positive	Positive	Positive	Negative	24-Sep	25-Sep	
58	Positive	Positive	Positive	Negative	24-Sep	24-Sep	
62	Positive	Positive	Positive	Positive	24-Sep	24-Sep	

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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?
9	1.47	6.89	1.52	0.71	0.77	49.4			≥1.5x Trimmed mean	Median x (Log)	No
11	90	474	91.5	61.5	54	872			>AB +2SD	Median log channel	No
12	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14	437	1410	431	308	258	6121			1.5x Mean negative	Median log channel	Yes
15	Median 324 RMF 1.85	201 1.14	303 1.73	192 1.08	175	17701			RMF >1.5		No
19	0.589	3.496	0.659	0.402	0.358	Pos 1 - 12.148 Pos 2 - 6.133 0.907			0.476 (1.33x Av neg control)	Log median x	No
20	0.4625	2.025	0.467	0.411	0.27	0.907			40 Linear channel shift	MCF	No
23	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
24	215	1141	220	142	172		4951	592	RR >1.5	MFCN	Yes
25	162	1101	256	124	103	5797			>1.3 RMF	Median log channel	Yes
28	147	326	155	125	87	918			10.6 (≥1.6 = Pos)	MFI	No
34	4.35	10.8	3.76	3.44	3.42	6.36			3.63 (Av +2SD)		No
35	3.75	1.77	1.49	2.35	1.51	13.97			1.9	Median log channel	Yes
38	53	265.1	111.5	38.6	0	398.1			≥46	Mean linear channel shift	No
39	0.27	1.26	0.29	0.19	0.15	13.8			>1.5 RMF	Median log fluorescence	Yes
41	294.67	1552.33	321	181.33	160.67	8856			+2SD	Median	No
42	854	1021	883	806	804		871	1219		Median linear channel	No
45	255	395	280	233	208	660			≥248 (≥40 channel shift)	Median channel value	Yes
48	0.7	2.46	0.71	0.52	0.52	11.61			≥1.3 RMF		Yes
51	4.78	20.64	6.35	3.62	2.96	273			4.96		No
54	346, 350	559, 546	383, 380	308, 262	269, 242, 255, 278, 258, 264	808			Test ≥1.2x neg QC value	Median channel shift	No
58	1.59	5.32	1.54	1.28	1.2	4.31			1.37 2SD	Log median	Yes
62	0.706	3.76	0.796	0.486	0.32	3.13			RMF >1.5		Yes

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HLA PHENOTYPE OF BLOOD DONOR: HLA-A2,A24; B8,B44; Cw7,Cw16; DR11,-; DQ7,-

Summary of Results

Total tested	16	17	17	17
Positive	2	17	5	0
Negative	14	0	12	17
Not Tested	3	3	3	3
% Positive	12.5%	100.0%	29.4%	0.0%
% Negative	87.5%	0.0%	70.6%	100.0%

Consensus	Negative	Positive	Not Assessed	Negative
HLA Antibody (Defined By CDC)	A3,A11+	B12	B57	A11

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
11	Negative	Positive	Negative	Negative	24-Sep	25-Sep	
12	NT	NT	NT	NT	25-Sep	25-Sep	NT - Late arrival of the samples
14	Negative	Positive	Negative	Negative	24-Sep	24-Sep	
15	Negative	Positive	Negative	Negative	24-Sep	24-Sep	
19	Negative	Positive	Negative	Negative	24-Sep	25-Sep	
20	Negative	Positive	Negative	Negative	24-Sep	26-Sep	
23	NT	NT	NT	NT	25-Sep	25-Sep	NT - Late arrival of the samples
24	Negative	Positive	Negative	Negative	24-Sep	25-Sep	
25	Negative	Positive	Negative	Negative	24-Sep	25-Sep	
28	Negative	Positive	Negative	Negative	24-Sep	24-Sep	
34	Positive	Positive	Positive	Negative	26-Sep	26-Sep	Cell lysis was noted in separation phase
38	Negative	Positive	Positive	Negative	24-Sep	24-Sep	
39	NT	NT	NT	NT	24-Sep	24-Sep	Technical failure
41	Negative	Positive	Negative	Negative	24-Sep	24-Sep	
42	Negative	Positive	Weak Positive	Negative	24-Sep	25-Sep	
48	Negative	Positive	Negative	Negative	24-Sep	25-Sep	
51	Equivocal	Positive	Positive	Negative	24-Sep	25-Sep	
54	Negative	Positive	Negative	Negative	24-Sep	25-Sep	
58	Negative	Positive	Negative	Negative	24-Sep	24-Sep	
62	Positive	Positive	Positive	Negative	24-Sep	24-Sep	

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11	854	1666	908.5	795.5	760	2927			>1.6 RMF 1215	Median log channel	No
12	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14	2075	3728	2047	1801	1731	17317			1.5x Mean negative	Median log channel	Yes
15	Median 3220	7299.00	3485	2426	2712	42040					
19	RMF 1.18	2.68	1.28	0.89					RMF >1.5		No
	4.166	8.828	4.579	4.009	3.842	Pos 1 - 43.572			7.453 (1.94x Av neg control)	Log median x	No
						Pos 2 - 14.029					
20	4.308	12.01	6.465	5.215	5.005	9.195			40 Linear channel shift	MCF	No
23	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
24	672	2509	717	409	665		33958	6608	RR >2.0	MFCN	Yes
25	1286	2546	1374	1049	1292	11235			>1.3 RMF	Median log channel	Yes
28	261	492	229	191	205	1225			6.0 (≥2.0 = Pos)	MFI	No
34	47.83	74.63	36.7	28.93	24.86	85.5			33.70 (Av +2SD)		No
38	31.8	149	47.5	19.9	0	194.3			≥35	Mean linear channel shift	No
39	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
41	1157.67	3104	910.33	672	840.67	13762			+2SD	Median	No
42	1056	1162	1074	985	1042		1397	1106		Median linear channel	No
48	2.58	5.95	2.15	1.99	2.55	21.51			≥1.3 RMF		Yes
51	11.81	35.24	13.52	7.69	6.99	232			11.99		No
54	628, 614, 611	676, 681, 724	623, 613, 615	568, 602, 578	581, 602, 591, 612, 593, 577	890			Test ≥1.2x neg QC value	Median channel shift	No
58	4.43	18.00	4.80	3.25	4.88	11.3			5.24 2SD	Log median	Yes
62	3.13	12.55	3.45	2.35	0.94	42.85			RMF >3.0		Yes