

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B05/2014 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 20TH MAY 2014

HLA PHENOTYPE OF BLOOD DONOR: HLA-A29, A30; B44, B13; Cw6, Cw16; DR7, -, DQ2, -

Summary of Results

Total tested	46	46	46	46
Positive	5	44	0	44
Negative	41	2	46	2
Not Tested	2	2	2	2
% Positive	10.9%	95.7%	0.0%	95.7%
% Negative	89.1%	4.3%	100.0%	4.3%

Consensus	Negative	Positive	Negative	Positive
HLA Antibody (Defined By CDC)	A11	B12	B7	A29

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
112	Negative	Positive	Negative	Positive	22-May	23-May	
114	Negative	Positive	Negative	Positive	21-May	22-May	
115	Negative	Positive	Negative	Positive	22-May	23-May	
116	Positive	Positive	Negative	Positive	22-May	23-May	
117	Negative	Positive	Negative	Positive	23-May	23-May	
118	NT	NT	NT	NT	22-May	22-May	Not tested due to late arrival of the samples
119	Negative	Positive	Negative	Positive	21-May	22-May	
120	Negative	Positive	Negative	Positive	21-May	22-May	
122	Negative	Positive	Negative	Positive	21-May	22-May	
126	Negative	Positive	Negative	Positive	21-May	21-May	We judged serum 1 to be negative after analyzing the histogram, even though it was positive according to our threshold limits.
130	Positive	Positive	Negative	Positive	21-May	22-May	
136	Negative	Positive	Negative	Positive	22-May	22-May	
138	Negative	Positive	Negative	Positive	22-May	22-May	
142	Negative	Positive	Negative	Positive	21-May	22-May	
143	Negative	Positive	Negative	Positive	22-May	23-May	
144	Negative	Positive	Negative	Positive	21-May	22-May	
145	Negative	Positive	Negative	Positive	20-May	21-May	
147	Negative	Positive	Negative	Positive	21-May	21-May	
154	Weak Positive	Positive	Negative	Positive	21-May	22-May	
157	Negative	Positive	Negative	Positive	21-May	21-May	
159	Negative	Positive	Negative	Positive	22-May	22-May	
160	Negative	Positive	Negative	Positive	20-May	21-May	
163	Weak Positive	Positive	Negative	Positive	21-May	21-May	
164	Negative	Positive	Negative	Positive	21-May	22-May	
167	Negative	Positive	Negative	Positive	22-May	23-May	
169	Negative	Positive	Negative	Negative	21-May	22-May	
176	Negative	Positive	Negative	Positive	22-May	23-May	
186	Positive	Positive	Negative	Positive	21-May	22-May	
190	Negative	Positive	Negative	Positive	21-May	22-May	
191	Negative	Negative	Negative	Negative	21-May	21-May	
193	Negative	Positive	Negative	Positive	21-May	21-May	
194	Negative	Positive	Negative	Positive	21-May	22-May	
195	Negative	Positive	Negative	Positive	23-May	23-May	
201	Negative	Positive	Negative	Positive	21-May	22-May	
202	Negative	Positive	Negative	Positive	21-May	21-May	
204	Negative	Positive	Negative	Positive	21-May	21-May	
209	Negative	Positive	Negative	Positive	21-May	22-May	
218	Negative	Positive	Negative	Positive	23-May	27-May	
220	Negative	Positive	Negative	Positive	22-May	23-May	
227	Negative	Positive	Negative	Positive	21-May	22-May	
235	Negative	Positive	Negative	Positive	21-May	21-May	
238	Negative	Positive	Negative	Positive	21-May	22-May	
245	Negative	Positive	Negative	Positive	21-May	22-May	
246	Negative	Positive	Negative	Positive	22-May	22-May	
252	Negative	Positive	Negative	Positive	21-May	22-May	
262	Negative	Positive	Negative	Positive	21-May	21-May	
271	NT	NT	NT	NT	NT	NT	LOW CELL VIABILITY
283	Negative	Negative	Negative	Positive	22-May	22-May	

PLEASE NOTE: THE NEXT DISTRIBUTIONS IS ON 8TH JULY 2014

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T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B05/2014 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 20TH MAY 2014

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 NBSC negative control used?
112	0.452	3.54	0.245	1.31	0.304	1.04			>1.5 ratio	Median log channel	No
114	227	369	194	332	199	284			249 (199+50)	Median linear channel	No
115	227	422	221	390	198	352			>40 channel shifts	Median linear channel shifts	Yes
116	0.33	2.67	0.19	1.25	0.17	16.45			ratio >1.7	Median log channel	No
117	2.92	14.72	2.63	7.83	2.61	15.75			ratio (RMF) >1.3	Median log channel	Yes
118	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	0.193	0.603	0.149	0.461	0.153	4.1			T-XM: ratio >1.285	MnX	No
119	120	374	102.5	310	One AB serum 91.50	One hyperimmunised serum 11849.50			B-line -1.48	Median	No
122	8	56.5	6	40.5	6	806	54	18	Neg control median x1.6	Geomean linear values	Yes
126	377.5	590.5	329	540	319	210			>55 median linear shift	Median linear channel	No
130	190	392	153	325	145	41 (NR=1194)			>40	Mean channel	No
136	0.05	41	3.6	32.5	3.43	0.96			NR>200	Kolmogorov-Smirnov (D value)	No
138	0.05	0.29	0.03	0.3	0	264.1			>0.20	Median log channel	No
142	93	176	76	156	86.67	26.7			112.18 3SD	Mean channel shift	No
143	8	336	-2	138	14	536			≥40		No
144	MFI 9.5	29.5	8.9	26.8	7.6	3.52			1.77	Median log channel	No
145	Ratio 1.25	3.88	1.18	3.53	1	68.3			(Med log ch test/Med log ch neg) >mean =2SD	Median log channel	No
147	96	208	71	195	63	451			>60 linear channel shift	Median linear channel	No
154	2.61	13.21	2.01	14.38	1.67	15.84			gMFI >115% control + shape of the curve	gMFI	No
157	119	218	119	190	108	496			123 (Neg +15)	Mean linear channel	No
159	166	310	141	281	138	463			40 linear channel shift (>178 MLC)	Mean linear channel	No
160	13.7	132	9.8	105	7.6	226			>14.5 (Neg +2SD)	Mean linear channel	No
163	2.7	30	1.3	20	1	5			2.3 Geomean log channel (serum/neg control)	Geomean log channel (serum/neg control)	Yes
164	4	32.1	3.4	19.5	3.4	74			10.2 (3 x MFI neg control)	MFI	No
167	9	91	7	53	6	117			2SD	Median log channel	No
	MLC 102	206	92	177	101	2064			NR = (MFI serum/MFI neg serum) x100	Mean log channel	No
169	NR 100	203	91	175	2044	2044			Pos >180 T-cell		No
176	SI 0.26	1.44	0.77	1.03	0	1.21			SI ≥0.50		No
186	MESF 2155	24855	1432	10339	1227	15693			1.5 fold the local negative	MFI - log channel	No
190	48	284.33	43.37	156.67	0.362	102			Ratio samples/Neg >1.2	Mean linear channel	No
191	0.77%	0.76%	0.66%	1.23%	41.13	153					No
	MFI -1.5	0.46	-2.9	5.09	<1%	80%					No
193	4.26	41.66	2.38	43.20	2.12	186.47			MFI >10	MFI	No
194	0.108	0.203	0.108	0.185	0.105	2			Neg control mean x2.5	Geometric mean linear channel	No
195	250	659	244	613	213	2621			ratio >1.5	MnX	No
201	0.279	1.24	0.278	1.4	0.282	5.32			Test/Neg control >1.25	Median log channel	Yes
202	1.8	16	1.2	10	0.7	93			x-mean ratio ≥2	x-mean	No
204	0.44	4.68	0.29	3.45	0.31	4.99			5% above the local neg control	Linear scale	No
209	1.21	3.71	0.94	3.88	234	390			0.465 = 1.5x local neg control	Mean log channel	No
218	78.9	610	83.4	445	86.3 x1.2 = 103.56	2166			>1.63 ratio	Geomean log channel	Yes
220	5.02	9.76	4.90	6.57	4.33	3.26	219.13	19.04	86.3 x1.2 = 103.56	Geometric MFI	No
227	0.35	1.43	0.38	1.25	0.37	8.28			2SD	Geomean linear values	No
235	1.02	7.16	1.54	8.39	1.22	3.26			0.74 (2x local neg control)	Mean log channel	No
238	670	1574	523	1790	671	2235			Median ±2SD	Median log channel	No
245	1.8	27.3	0.3	15.3	3.7	8.5			MESF serum/MSEF neg control	MESF	No
246	<1%	94.8%	<1%	87.6%	<1%	82.6%			7 linear channel shift	Linear channel shift	Yes
252	1.06	1.30	1.02	7.32	81.3	395			>30%	Median channel ratio	No
262	Ratio	2.35	2.07	2.07	1123	17485			Ratio samp/neg >2	Median log channel	No
	Lysis	59%		45%					Lysis >12%		No
271									20 channel shift	Channel shift	No
283	-77.96	-76.85	-48.09	23.04	139.49	97.65					No

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DESPATCHED ON 20TH MAY 2014

HLA PHENOTYPE OF BLOOD DONOR: HLA-A29, A30; B44, B13; Cw6, Cw16; DR7, -; DQ2, -

Summary of Results

Total tested	42	43	42	43
Positive	4	40	4	43
Negative	38	3	38	0
Not Tested	2	2	2	2
% Positive	9.5%	93.0%	9.5%	100.0%
% Negative	90.5%	7.0%	90.5%	0.0%

Consensus	Negative	Positive	Negative	Positive
HLA Antibody (Defined By CDC)	A11	B12	B7	A29

Lab No.	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
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190	Positive	Positive	Positive	Positive	21-May	22-May	
191	Positive	Positive	Positive	Positive	21-May	21-May	
193	Negative	Positive	Negative	Positive	21-May	21-May	
194	Equivocal	Positive	Equivocal	Positive	21-May	22-May	
195	Negative	Positive	Negative	Positive	23-May	23-May	
201	Negative	Positive	Negative	Positive	21-May	22-May	
202	Negative	Negative	Negative	Positive	21-May	21-May	
204	Negative	Positive	Negative	Positive	21-May	21-May	
209	Negative	Positive	Negative	Positive	21-May	22-May	
218	Negative	Positive	Negative	Positive	23-May	27-May	Very few B-cells
220	Negative	Positive	Negative	Positive	22-May	23-May	
227	Negative	Positive	Negative	Positive	21-May	22-May	
235	Negative	Positive	Negative	Positive	21-May	21-May	
238	Negative	Positive	Negative	Positive	21-May	22-May	
245	Negative	Positive	Negative	Positive	21-May	22-May	
246	Negative	Positive	Negative	Positive	22-May	22-May	
252	Negative	Positive	Negative	Positive	21-May	22-May	
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271	NT	NT	NT	NT	NT	NT	LOW CELL VIABILITY
283	Negative	Negative	Negative	Positive	22-May	22-May	

