

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B03/2015 (COMPARED TO LOCAL NEGATIVE CONTROL)

DESPATCHED ON 10TH MARCH 2015

HLA PHENOTYPE OF BLOOD DONOR: HLA-A3, A23; B35, B44; Cw4, -; DR1, DR7; DQ2, DQ5

Summary of Results												
T-cells					B-cells							
Total tested	20	23	23	21	20	19	20	20				
Positive	7	23	1	3	1	11	20	19				
Negative	13	0	22	18	19	8	0	1				
NT/Equivocal	3	0	0	2	0	1	0	0				
% Positive	35.0%	100.0%	4.3%	14.3%	5.0%	57.9%	100.0%	95.0%				
% Negative	65.0%	0.0%	95.7%	85.7%	95.0%	42.1%	0.0%	5.0%				
Consensus	Not Assessed	Positive	Negative	Negative	Negative	Not Assessed	Positive	Positive				
HLA Antibody Specificity (Defined By CDC)	A11	A3	DR7, DQ2	DR1	A11	A3	DR7, DQ2	DR1				
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	Comments	
9	Positive	Positive	Negative	NT					11-Mar	12-Mar	Serum 4 NT due to poor reproducibility (duplicates)	
11	Equivocal	Positive	Negative	Negative	Negative	Equivocal	Positive	Positive	11-Mar	13-Mar		
12	Negative	Positive	Negative	Positive	Negative	Positive	Positive	Positive	11-Mar	11-Mar		
14	Negative	Positive	Negative	Negative	Negative	Negative	Positive	Positive	11-Mar	11-Mar		
15	Negative	Positive	Negative	Negative	Negative	Negative	Positive	Positive	11-Mar	11-Mar		
19	Positive	Positive	Negative	Negative	Negative	Negative	Positive	Negative	12-Mar	12-Mar		
20	Positive	Positive	Negative	Negative	Negative	Positive	Positive	Positive	11-Mar	11-Mar		
23	Weak positive	Positive	Negative	Negative	Positive	Positive	Positive	Positive	11-Mar	11-Mar		
24	Negative	Positive	Negative	Negative	Negative	Positive	Positive	Positive	11-Mar	12-Mar		
25	Positive	Positive	Negative	Positive	Negative	Positive	Positive	Positive	11-Mar	12-Mar		
28	Negative	Weak positive	Weak positive	Weak positive	Negative	Negative	Positive	Weak positive	11-Mar	11-Mar		
34	Negative	Positive	Negative	Negative	Negative	Positive	Positive	Positive	11-Mar	11-Mar		
35	Equivocal	Positive	Negative	Equivocal					12-Mar	12-Mar		
38	Negative	Positive	Negative	Negative	Negative	Negative	Positive	Positive	11-Mar	11-Mar		
39	Negative	Positive	Negative	Negative	Negative	Positive	Positive	Positive	11-Mar	12-Mar		
41	Negative	Positive	Negative	Negative	Negative	Positive	Positive	Positive	11-Mar	11-Mar		
42	Weak positive	Positive	Negative	Negative	Negative	Negative	Positive	Positive	11-Mar	12-Mar		
45	Negative	Positive	Negative	Negative					11-Mar	11-Mar		
48	Negative	Positive	Negative	Negative	Negative	Negative	Positive	Positive	11-Mar	11-Mar		
51	Negative	Positive	Negative	Negative	Negative	Positive	Positive	Positive	11-Mar	12-Mar		
54	Negative	Positive	Negative	Negative	Negative	Weak positive	Positive	Positive	11-Mar	12-Mar		
58	Equivocal	Positive	Negative	Negative	Negative	Positive	Positive	Positive	11-Mar	11-Mar		
62	Positive	Positive	Negative	Negative	Negative	Negative	Positive	Positive	11-Mar	11-Mar		

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T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B03/2015 (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	2.57	3.71	0.66	-	1.23	159			≥ 1.5 trimmed mean	Median x (log)	No	
11	64	344	59	60	56	129			61 (mean + 2SD)	Median log channel	No	
12	124	250.0	132	151	113	304			Ratio ≥ 1.5 test serum MCF:Neg MCF	Median channel fluorescence (MCF)	Yes	
14	856	1534	788	809	665	4714			1.5 x Negative	Median log channel	Yes	90
15	1.27	4.04	1.07	1.37	1.00	43.29			> 1.5 RMF	RMF	No	
19	0.34	2.22	0.244	0.26	0.248		6.415	2.61	0.330 (1.33 x av. Neg control)	Log median x	No	
20	0.425	1.36	0.342	0.351	0.286	0.949			40 linear channel shift	Median channel fluorescence	No	90
23	5.34	9.86	4.58	4.03	3.2	45.32			+ 3SD	Median channel fluorescence	Yes	
24	443.5	1911	347	306	307		3996	1281	> 1.5 RR from AB Negative control	Median fluorescent channel number	Yes	
25	110	550	88	101	73	6117			> 1.3 RMF	Median log channel	Yes	99
28	101	165	110	120	69	630			9.1 (≥ 1.6 is positive)		No	
34	16.07	41.67	15.7	14.6	15.17	63/40.2			19.75 mean + 2SD	Median log channel	No	
35	2.5	10.78	2.03	2.15	1.69	7.07			3SD x mean neg control 2.14	Median log channel	Yes	
38	20.4	134	17.3	25.6	0	266			46 linear channel shift	Linear channel shift	No	
39	0.18	0.58	0.16	0.17	0.15	2.99			> 1.5 RMF	Median log fluorescence		
41	241	714	188	222	202	7882			RMF ≥ 1.5		No	
42	266	815	195	233	200		8282	325	RMF ratio > 1.3	Median log channel	No	
45	240	336	249	255	232	634			≥ 272 MCV (≥ 40 channel shift)	Median channel value	Yes	
48	0.56	1.16	0.54	0.57	0.56	5.84			≥ 1.3 RMF	Median log channel	Yes	
51	2.48	14.12	1.1	2.2	1.16	155			3.16			95
54	282, 268	460, 444	245, 246	266, 273	233, 225, 232, 235, 237	713			≥ 1.2 x neg control in MESF values	Median channel value	No	
58	1.51	4.76	1.41	1.34	1.19	3.14			1.5 x mean (1.78)	Log median	Yes	
62	0.548	1.965	0.43	0.462	0.39	2.64			RMF > 1.5	Median log channel	Yes	99

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DESPATCHED ON 10TH MARCH 2015

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	544	801	3564	1401	517	2912			827 (1.6 RMF)	Median log channel	No	
12	1102	822	3025	1520	814	2963			Ratio ≥ 1.5 test serum MCF:Neg MCF	Median channel fluorescence (MCF)	Yes	
14	3870	4546	11662	5974	3342	14158			1.5 x Negative	Median log channel	Yes	90
15	0.91	1.05	3.78	1.8	1	8.33			> 1.5 RMF	RMF	No	
19	5.078	8.403	16.44	7.854	4.683		34.798	12.258	9.085 (1.94 x av. Neg control)	Log median x	No	
20	3.55	5.65	28.3	10.11	3.56	4.48			40 linear channel shift	Median channel fluorescence	No	90
23	10.96	8.1	56.52	15.02	6.33	124			+ 2SD	Median channel fluorescence	Yes	
24	1691	2701	12702	3015	2090		26465	3454	> 1.3 RR from AB Negative control	Median fluorescent channel number	Yes	
25	851	1814	6308	2712	1579	9830			> 1.3 RMF	Median log channel	Yes	99
28	173	250	806	411	155	847			5.5 (≥ 2.0 is positive)		No	
34	11.27	1.83	32.7	19.37	10	33/28.8			12.07 mean + 2SD	Median log channel	No	
38	-37.7	-7.3	143.9	73.3	0	130.9			35 linear channel shift	Linear channel shift	No	
39	1.11	2	7.22	2.7	0.86	10.15			≥ 2.0 RMF	Median log fluorescence		
41	1105	1625	4952	1604	63	12218			RMF ≥ 1.5		No	
42	1681	2205	7410	3247	1612		25397	3112	RMF ratio > 1.5	Median log channel	No	
48	1.92	2.94	8.51	4.67	2.84	13.66			≥ 1.3 RMF	Median log channel	Yes	
51	11.31	29.8	177	63.4	11.6	257			21.64			90
54	538, 535, 537	561, 567, 572	693, 676, 693	627, 634, 633	520, 529, 520, 536, 538	797			≥ 1.2 x neg control in MESF values	Median channel value	No	
58	3.82	10.05	25.9	8.07	2.84	7.45			1.5 x mean (4.26)	Log median	Yes	
62	3.535	7.02	31.1	10.95	3.51	39.25			RMF > 3.0	Median log channel	Yes	95