

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B02/2018 OS WB (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 27 FEBRUARY 2

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A24; B60, B62; Cw9, Cw10; DR13, DR14; DQ5, DQ6

Summary of Results											
T-cells					B-cells						
Total tested	15	15	15	15	14	14	14	14			
Positive	4	1	12	2	11	2	9	1			
Negative	11	13	3	13	3	12	4	12			
Equivocal	0	1	0	0	0	0	1	1			
NT	4	4	4	4	4	4	4	4			
% Positive	26.7%	6.7%	80.0%	13.3%	78.6%	14.3%	64.3%	7.1%			
% Negative	73.3%	86.7%	20.0%	86.7%	21.4%	85.7%	28.6%	85.7%			
% Equivocal	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	7.1%	7.1%			
<b>Consensus</b>	<b>Not Assessed</b>	<b>Negative</b>	<b>Positive</b>	<b>Negative</b>	<b>Positive</b>	<b>Negative</b>	<b>Not Assessed</b>	<b>Negative</b>			
HLA Antibody Specificity (Defined By CDC)	A1 A11 DR15	B12	B7	A1	A1 A11 DR15	B12	B7	A1			
Summary of Results											
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
101	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	28-Feb	01-Mar	Flow Cytometry Crossmatch not routinely used
114	Negative	Negative	Positive	Negative	<b>Negative</b>	Negative	Negative	Negative	01-Mar	01-Mar	
126	Positive	Negative	Positive	<b>Positive</b>	Positive	Negative	Positive	<b>Positive</b>	28-Feb	01-Mar	
136	Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	01-Mar	03-Mar	
142	Positive	<b>Equivocal</b>	Positive	<b>Positive</b>	Positive	<b>Positive</b>	Positive	<b>Equivocal</b>	01-Mar	02-Mar	
185	Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	28-Feb	28-Feb	
186	Positive	Negative	Positive	Negative	Positive	Negative	Negative	Negative	28-Feb	28-Feb	
204	Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	28-Feb	28-Feb	
206	Negative	Negative	Positive	Negative	Positive	Negative	Equivocal	Negative	28-Feb	01-Mar	
227	NT	NT	NT	NT	NT	NT	NT	NT	28-Feb		
230	Negative	Negative	<b>Negative</b>	Negative	<b>Negative</b>	Negative	Negative	Negative	01-Mar	01-Mar	
245	Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	28-Feb	01-Mar	
284	Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	28-Feb	28-Feb	
302	Negative	<b>Positive</b>	<b>Negative</b>	Negative	Positive	<b>Positive</b>	Positive	Negative	05-Mar	08-Mar	
311	NT	NT	NT	NT	NT	NT	NT	NT	28-Feb		
315	NT	NT	NT	NT	NT	NT	NT	NT			No results returned
358	Negative	Negative	Positive	Negative	Positive	Negative	Positive	Negative	28-Feb	28-Feb	
374	Negative	Negative	<b>Negative</b>	Negative	<b>Negative</b>	Negative	Negative	Negative	07-Mar	08-Mar	
380	NT	NT	NT	NT	NT	NT	NT	NT	13-Mar		Delivery delay

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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	Viability (%)
101										MFI	
114	261	220	333	230	216	373			266.00	Linear Channel Shift	100
126	247	126	387	230	143	826			>80 MCS	Median Linear Channel	90
136	1.6	1.2	7	1.4	1.37	50 NR=3659			NR>200	Geo Mean Channel	96
142	179	143	200	168	120	1219			140 (120 +3SD)	Median Log Channel	89.9
184	1.27	0.343	0.33	0.656	0.301	15.6			Score>1.2	Median MFI	
185	0.24	0.22	0.31	0.22	0.23	1.16			2 SD	Median Log Channel	NT
186	0.7	0.3	0.8	0.4	0.4	41.7			1.5 Fold the local negative control	Mean Fluorescence Intensity- Log Channel	99
204	0.39	0.33	1.29	0.34	0.34	16.2			0.51=1.5 x Log Neg Control	Mean Log Channel	
206	0.92	0.59	1.38	0.7		3.39			Ratio (MFI Serum/MFI Neg Ctrl)>1.5	MFI	>90
227	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
230	7.3	6.26	9.91	6.61	8.13	170			20	MFI	
245	1.5	0	4.5	0	3 MeanLinear Channel	57.5			7	Linear Channel Shift	100
284	247	212	326	238	226	1139			Sample Serum/ Negative Control Ratio >1.2	Median Log Channel	
302	2	8	2	1	4	95				Beckman Coulter Navios Flow Cytometer	0
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
315											
358											
374	0	0	0	0	0	100			20	Cell Percentage	0
380	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

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B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B02/2018 OS WB (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 27 FEBRUARY 2018

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	Viability (%)
101										MFI	
114	493.00	444.00	461.00	411.00	419.00	582.00			499	Linear Channel Shift	100
126	407.00	147.00	407.00	374.00	157.00	784.00			>120 MCS	Median Linear Channel	90
136	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested			Not Tested	Geo Mean Channel	96
142	560.00	320.00	394.00	286.00	225.00	4076.00			273 (225 +3SD)	Median Log Channel	89.9
184	17.90	9.78	5.28	6.17	3.45	98.80			Score >4	Median MFI	
185	0.74	0.54	0.76	0.53	0.54	4.90			2 SD	Median Log Channel	NT
186	2.60	0.60	1.10	0.80	0.90	31.80			2 Fold the local negative control	Mean Fluorescence Intensity- Log Channel	99
204	3.71	0.68	5.12	1.02	0.58	44.80			1.15 = 2 x Log Neg Control	Mean Log Channel	
206	7.56	1.10	1.79	1.73	1.18	10.77			Ratio (MFI Serum/MFI Neg Ctrl)>2.0	MFI	>90
227	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
230	19.00	4.47	12.69	6.98	14.75	257.00			40	MFI	
245	13.30	1.80	12.30	4.30	10.7 Mean Linear Channel	112.30			15	Linear Channel Shift	100
284	360.00	201.00	334.00	197.00	197.00	3271.00			Sample Serum/ Negative Control Ratio >1.2	Median Log Channel	
302	8.00	12.00	16.00	3.00	4.00	95.00				Beckman Coulter Navios Flow Cytometer	0
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
315											
358											
374	0	0	0	0	0	100			20	Cell Percentage	0
380	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT