

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B06/2018 OS WB (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 10 JULY 2018

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A25; B39, B55; Cw9, Cw12; DR11, DR16; DQ5, DQ7

		Summary of Results										
		T-cells				B-cells						
Total tested		16	16	16	16	15	15	15	15			
Positive		0	0	2	16	0	0	13	15			
Negative		16	16	14	0	15	15	2	0			
Equivocal		0	0	0	0	0	0	0	0			
NT		2	2	2	2	2	2	2	2			
% Positive		0.0%	0.0%	12.5%	100.0%	0.0%	0.0%	86.7%	100.0%			
% Negative		100.0%	100.0%	87.5%	0.0%	100.0%	100.0%	13.3%	0.0%			
% Equivocal		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
Consensus		Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive			
Antibody Specificity (Defined By CDC)		A1	Negative	Cw5 Cw6	Multi	A1	Negative	Cw5 Cw6	Multi			
		T-cells				B-cells						
Lab No.	Assessment T-cells B-cells	Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4	Date Received	Date Tested	Comments
101	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	11-Jul	12-Jul	NR>200 NR=Relative Number NR= (Mean channel sample/Mean Channel NC)x100
114	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	13-Jul	16-Jul	
119	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	11-Jul	11-Jul	
126	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	11-Jul	12-Jul	
136	YES	Negative	Negative	Negative	Positive					12-Jul	13-Jul	
142	YES YES	Negative	Negative	Positive	Positive	Negative	Negative	Positive	Positive	11-Jul	12-Jul	
185	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	11-Jul	12-Jul	
186	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	20-Jul	20-Jul	
204	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	11-Jul	11-Jul	
206	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	11-Jul	12-Jul	
227	YES YES	NT	NT	NT	NT	NT	NT	NT	NT	11-Jul		Not routinely used
230	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Negative	Positive	12-Jul	13-Jul	
245	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	11-Jul	12-Jul	
284	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	11-Jul	11-Jul	
311	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	11-Jul	13-Jul	
315	YES YES											No results returned
358	YES YES	Negative	Negative	Positive	Positive	Negative	Negative	Positive	Positive	11-Jul	11-Jul	
374	YES YES	Negative	Negative	Negative	Positive	Negative	Negative	Negative	Positive	19-Jul	20-Jul	
380	YES YES	NT	NT	NT	NT	NT	NT	NT	NT	18-Jul		Low cell viability

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

T-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B06/2018 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 10 JULY 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	0.195	0.19	0.216	0.623	0.18	4.21			2SD	MFI	
114	280	252	271	541	259	312			50 linear channel	median channel	77
119	0.175	0.171	0.222	4.6	0.177	1.69			ratio:pos>1.289 B.line (1.289-1.45)	MnIX	98
126	135	154	129	588	139	771			>80 linear channel shift	median linear channel	>90
136	4.9	4.7	5.9	71	4.8	119 (NR=2479)			NR>200	geo mean channel	98
142	751	725	1093	2002	696	4012			789 (696+3SD)	median log	86.6
185	0.5	0.46	0.46	2.1	0.54	5.95			2SD	median log channel	
186	0.6	0.49	0.54	11.4	0.46	37.6			1.5 fold the local negative control	mean fluorescence intensity- log channel	99
204	0.286	0.31	0.321	10.7	0.306	16.9			0.458=1.5x local NC	mean log channel	
206	1.53	0.95	1.83	48.92	1.32	4			ratio (MFI serum/ MFI NEG control) >1.6	MFI	90
227	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
230	7.5	7.9	7.4	30	17	60			20 MFI	MFI	
245	1	0.5	1	39	2	60			7	linear channel shift	100
284	372	352	381	853	360	1898			sample serum/ negative control ratio >1.2	median log channel	
311	1.14	1	1.14	20	1	6.49			ratio >2.3	median	90
315											
358	-	-	-	-	-	-	-	-	-	-	-
374	0	0	0	22	0	100			20	FC500	
380	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

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

B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B06/2018 (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 10 JULY 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	0.634	0.37	3.64	14.3	0.821	45.2			2SD	MFI	
114	421	385	627	726	390	592			60 linear channel	median channel	75
119	3.1	1.79	10.3	33.3	1.52	10.6			ratio:pos>1.7 B.line (1.5-1.7)	MnIX	98
126	136	135	301	707	114	707			>120 linear channel shift	median linear channel	>90
142	490	504	1174	3510	841	8612			864.8 (841+3SD)	median log	87.6
185	0.21	0.16	0.83	4.20	0.36	7.97			2SD	median log channel	
186	1.5	1.2	3.8	19.6	0.85	33.7			2 fold the local negative control	mean fluorescence intensity- log channel	99
204	0.708	0.541	7.41	27.8	0.428	52.2			0.856 = 2 x loc neg control	mean log channel	
206	2.35	1.25	37.78	136.39	1.75	6.3			Ratio (MFI serum/ MFI NEG control) >1.8	MFI	90
227	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
230	3.5	3.2	9.4	60	17	112.4			40	MFI	
245	5	2.5	26.5	95	5	123			15	linear channel shift	100
284	299	271	510	1553	310	6894			sample serum / negative control ratio >1.2	median log channel	
311	1.19	0.97	7.72	14.75	1	4.04			Ratio >1.7	median	90
315											
358	-	-	-	-	-	-	-	-	-	-	-
374	0	0	0	21	0	100			20	FC500	
380	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT