

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

T-CELL AND B-CELL FLOW CYTOMETRY RESULTS OF SAMPLE 2B08/2018 OS WB (COMPARED TO LOCAL NEGATIVE CONTROL)

DISPATCHED ON 02ND OCTOBER 2018

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A3; B7, B51; Cw1, Cw7; DR4, DR7; DQ8, DQ9

Summary of Results													
T-cells				B-cells									
Total tested	15	15	15	15	14	14	14	14	14	14			
Positive	0	1	1	1	14	1	13	1	1				
Negative	15	14	14	14	0	13	1	13	13				
Equivocal	0	0	0	0	0	0	0	0	0				
NT	5	5	5	5	5	5	5	5	5				
% Positive	0.0%	6.7%	6.7%	6.7%	100.0%	7.1%	92.9%	7.1%	7.1%				
% Negative	100.0%	93.3%	93.3%	93.3%	0.0%	92.9%	7.1%	92.9%	92.9%				
% Equivocal	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
Consensus	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Positive	Negative				
HLA Antibody Specificity (Defined By CDC)	Cw5 Cw6	A1	A29 DR7 DQ2	B44	Cw5 Cw6	A1	A29 DR7 DQ2	B44					
Lab No.	Assessment T-cells	Assessment 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	Negative	Positive	Negative	Positive	Negative	03-Oct	04-Oct	Serum 1 positivity highlighted after pronase treatment
114	YES	YES	NT	NT	NT	NT	NT	NT	NT	NT	04-Oct	08-Oct	Samples arrived late on a holiday weekend
119	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	03-Oct	03-Oct	Little number of lymphocytes and many red cells.
126	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	03-Oct	03-Oct	
136	YES		Negative	Negative	Negative	Negative					03-Oct	04-Oct	NR= Relative number NR= (Mean Channel sample/ Mean Channel Negative Control)x100
142	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	03-Oct	05-Oct	
185	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	03-Oct	04-Oct	
186	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	03-Oct	03-Oct	
204	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	03-Oct	03-Oct	
206	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	04-Oct	04-Oct	Bad separation
227	YES	YES	NT	NT	NT	NT	NT	NT	NT	NT	03-Oct		Method is not routinely used
230	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	04-Oct	04-Oct	
245	YES	YES	Negative	Positive	Positive	Positive	Positive	Positive	Positive	Positive	03-Oct	04-Oct	
284	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	03-Oct	03-Oct	
311	YES	YES	NT	NT	NT	NT	NT	NT	NT	NT	03-Oct		
315	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative			
358	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	03-Oct	03-Oct	
374	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	11-Oct	11-Oct	Very low number of B cells.
380	YES	YES	NT	NT	NT	NT	NT	NT	NT	NT			No results returned
401			NT	NT	NT	NT	NT	NT	NT	NT			Delivery issues

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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	0.168	0.17	0.185	0.166	0.17	3.56			2SD	MFI	
114											
119	0.186	0.157	0.174	0.152	0.158	2.34			Ratio Pos >1.285 B.Line (1.285-1.48)	MnIX	94
126	126	116	121	116	120	963			>80 Median	Median Linear Channel	>90
136	1.9	1.8	1.7	1.7	1.83	77			NR >200	Geo Mean Channel	99
142	33	65	4	5	92	4353			209.46	Median Log Channel	
185	0.47	0.46	0.48	0.47	0.5	2.95			2SD	Median Log Channel	
186	0.29	0.25	0.29	0.24	0.22	20.8			1.5 Fold the local negative control	Mean Fluorescence Intensity-Log Channel	99
204	0.327	0.321	0.327	0.324	0.318	25.4			0.477	Mean Log Channel	
206	0.57	0.56	0.59	0.55	0.58	2.06			Ratio MFI	MFI	90
227											
230	14, 79	11, 86	14, 99	15, 68	10.41	95.4			95.4		
245	0	34	33.5	30	1	122			7 Linear Channel Shift	Linear Channel Shift	100
284	415	412	429	421	389	2671			Ratio >1.2	Median Log Channel	
311											
315											
358											
374	0	0	0	0	0	100			20%		
380											
401											

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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	3.24	0.765	4.72	0.808	1.88	40.4			2SD	MFI	
114											
119	15.4	1.78	18.7	1.9	3.06	9.82			Ratio Pos>1.7 B.Line (1.5-1.7)	MnIX	94
126	395	109	434	129	115	904			>120 Median	Median Linear Channel	>90
142	1605	505	1903	495	649	11559			880.23	Median Log Channel	
185	1.3	0.22	1.7	0.39	0.42	5.07			2SD	Median Log Channel	
186	1.95	0.5	3.8	1.1	0.56	48			2 Fold the local negative control	Mean Fluorescence Intensity- Log Channel	99
204	10.1	0.962	7.15	1.12	0.982	43.2			1.96	Mean Log Channel	
206	10.45	1.12	12.09	1.01	1.01	2.72			Ratio MFI	MFI	90
227											
230	58, 56	15, 12	63, 78	32, 78	11, 54	113, 93			40 MFI		
245	14.7	47.7	97.2	45.2	1.3	183.2			15 Linear Channel Shift	Linear Channel Shift	100
284	836	367	918	430	359	12349			Ratio >1.2	Median Log Channel	
311											
315											
358											
374	24	0	0	0	0	100			20%	Percentage	
380											
401											