

**UK NEQAS for H&I Scheme 2A - Cytotoxic Crossmatching**

PBL/T-CELL AND B-CELL CROSSMATCHING RESULTS WITHOUT DTT OF SAMPLE 2A04/2018

DESPATCHED ON 05 JUNE 2018

HLA PHENOTYPE OF BLOOD DONOR: HLA-A1, A3; B8, B27; Cw1, Cw7; DR7, DR17; DQ2, DQ9

				Summary of Results													
				PBL				T-Cells				B-Cells					
Total tested				13	13	13	13	21	21	21	20	21	21	21	21		
Positive				6	1	0	0	1	0	0	2	20	2	13	5		
Negative				7	12	13	13	20	21	21	18	1	19	8	16		
NT				0	0	0	0	3	3	3	4	4	4	4	4		
% Positive				46.2%	7.7%	0.0%	0.0%	4.8%	0.0%	0.0%	10.0%	95.2%	9.5%	61.9%	23.8%		
% Negative				53.8%	92.3%	100.0%	100.0%	95.2%	100.0%	100.0%	90.0%	4.8%	90.5%	38.1%	76.2%		
<b>Consensus</b>				<b>Not Assessed</b>	<b>Negative</b>	<b>Negative</b>	<b>Negative</b>	<b>Negative</b>	<b>Negative</b>	<b>Negative</b>	<b>Negative</b>	<b>Positive</b>	<b>Negative</b>	<b>Not Assessed</b>	<b>Negative</b>		
HLA Antibody Specificity (Defined By CDC)				DR52	B12 B21	B7	B7 B27 Cw+	DR52	B12 B21	B7	B7 B27 Cw+	DR52	B12 B21	B7	B7 B27 Cw+		
Lab No.	PBL Assessment	T Cell Assessment	B Cell Assessment	Without DTT				Without DTT				Without DTT				Comments	
				Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4		
112	YES			Positive	Negative	Negative	Negative										
119	YES			Positive	Negative	Negative	Negative										
120		YES	YES					Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive		
128	YES																No results returned
133		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative		
139	YES	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative		
143		YES						Negative	Negative	Negative	Negative						
147	YES	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Positive		1-2 => Negative 4=>Weak 6=>Strong 8=>Very Strong
		YES	YES					Negative	Negative	Negative	NT	Positive	Negative	Positive	Positive		Not enough cells to test with DTT
154																	Serum 4, T cells 2A04 2018 without DTT, reported as "NT" because weakly reactive (50% wells were score 2 with 2µL of serum)
157	YES			Negative	Negative	Negative	Negative										
159		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative		
163		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative		
169		YES	YES					Positive	Negative	Negative	Negative	Positive	Positive	Negative	Negative		
189	YES			Negative	Negative	Negative	Negative										
190		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative		
193		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative		
194		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative		
195		YES	YES					NT	NT	NT	NT	NT	NT	NT	NT		Samples not received on time.
197		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative		
209		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Positive	Positive		
216	YES		YES	Negative	Negative	Negative	Negative					NT	NT	NT	NT		Technical issue isolating B cells.
229	YES			Negative	Negative	Negative	Negative										
232								NT	NT	NT	NT	NT	NT	NT	NT		
235	YES			Positive	Negative	Negative	Negative										Problems with cells due to their viability. Cannot perform enough cell for CDC and Flow XM .
238	YES	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Positive		Serum 4 should be positive IgG due to B27 MFI:7000
239	YES	YES	YES	Positive	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative		% 0-10 POSITIVE : SCORE 1 % 11-20 POSITIVE : SCORE 2 % 21-50 POSITIVE : SCORE 4 % 51-80 POSITIVE : SCORE 6 % 81-100 POSITIVE : SCORE 8
245	YES	YES	YES	Positive	Positive	Negative	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Positive	Negative		
252	YES		YES	Positive	Negative	Negative	Negative					Positive	Negative	Negative	Negative		
260		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative		
292		YES	YES					Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative		
293		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative		
294		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative		
297		YES	YES					NT	NT	NT	NT	NT	NT	NT	NT		Very high cellular mortality.

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DESPATCHED ON 05 JUNE 2018

Lab No.	PBL without DTT				T-cell without DTT				B-cell without DTT				Cell viability %		
	Serum 1 reaction strength	Serum 2 reaction strength	Serum 3 reaction strength	Serum 4 reaction strength	Serum 1 reaction strength	Serum 2 reaction strength	Serum 3 reaction strength	Serum 4 reaction strength	Serum 1 reaction strength	Serum 2 reaction strength	Serum 3 reaction strength	Serum 4 reaction strength	PBL	T-cells	B-cells
9	0	2	0		0		0	0	0	2		4	80	80	60
20	1	6	2	2					1	6	8	7	90		40
23					1	2	1	1	1	1	1	1		90	30
38	1	2	1	1	1	8	1	1	1	1	1	1	95	99	97
51					0	6	0	0	0	6	0	0		90	90
101					1	1	1	1	1	1	1	4			
112	4	2	2	2									90		
114					1	1	2	1	1	4	4	2			
116					1	1-6	1	1						90	70
136					1	6	1	1						98	
139	1	1	1	1	1	1	1	1	8	1	8	1	80	80	80
147	1	1	1	1	1	1	1	1	8	1	1	4	99	99	90
162											4	4		100	100
163					1	1	1	6	6	1	6	6		90	90
169					6	1	1	1	4	2	2	1		96	96
181					1	8	1	1	1	4	1	1		98	98
197													90	90	90
204					1	4	2	1	1	8	6	6		95	95
206					0	0	0	0						95	90
209					1	1	1	1	8	1	8	6			
223					1	8	1	1						90	50
227						4				6				90	90
229													85		
238	2	1	2	2	1	1	1	1	8	1	6	4	80	90	50
252	2-4	1	1	1					4-6	1	1	1	65		65
260					-	-	-	-	+++	-	++	-		90	90
268					1	1	1	1	1	4	1	1		95	80
284					1	2	1	1	1	6	6	2		99	85
294					0	0	0	0	4	0	2	0		99	99
311					1	1	1	1	1	1	1	1	90		
315					1	1	1	1	1	1	1	1	80	80	80

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PBL/T-CELL AND B-CELL CROSSMATCHING RESULTS WITH DTT OF SAMPLE 2A04/2018

DESPATCHED ON 05 JUNE 2018

HLA PHENOTYPE OF BLOOD DONOR: HLA-A1, A3; B8, B27; Cw1, Cw7; DR7, DR17; DQ2, DQ9

				Summary of Results												
				PBL				T-Cells				B-Cells				
Total tested	13	13	13	13	20	20	20	20	20	20	20	20				
Positive	4	1	0	0	1	0	0	1	19	1	2	1				
Negative	9	12	13	13	19	20	20	19	1	19	18	19				
NT	0	0	0	0	2	2	2	2	3	3	3	3				
% Positive	30.8%	7.7%	0.0%	0.0%	5.0%	0.0%	0.0%	5.0%	95.0%	5.0%	10.0%	5.0%				
% Negative	69.2%	92.3%	100.0%	100.0%	95.0%	100.0%	100.0%	95.0%	5.0%	95.0%	90.0%	95.0%				
Consensus	Not Assessed	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative				
HLA Antibody Specificity (Defined By CDC)	DR52	B12 B21	B7	B7 B27 Cw+	DR52	B12 B21	B7	B7 B27 Cw+	DR52	B12 B21	B7	B7 B27 Cw+				
Lab No.	PBL Assessment	T Cell Assessment	B Cell Assessment	With DTT				With DTT				With DTT				Comments
				Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4	
112	YES			Positive	Negative	Negative	Negative									
119	YES			Negative	Negative	Negative	Negative									
120		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
133		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	
139	YES	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
143		YES						Negative	Negative	Negative	Negative					
147	YES	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	1-2 => Negative 4=>Weak 6=>Strong 8=>Very Strong
157	YES			Negative	Negative	Negative	Negative									
159		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
163		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
169		YES	YES					Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
189	YES			Negative	Negative	Negative	Negative									
190		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
193		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
194		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
195		YES	YES					NT	NT	NT	NT	NT	NT	NT	NT	Samples not received on time.
197		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
209		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
216		YES	YES	Negative	Negative	Negative	Negative					NT	NT	NT	NT	Technical issue isolating B cells.
229	YES			Negative	Negative	Negative	Negative									
235	YES			Positive	Negative	Negative	Negative									Problems with cells due to their viability. Cannot perform enough cell for CDC and Flow XM .
238	YES	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
245	YES	YES	YES	Positive	Positive	Negative	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Negative	Negative	
252	YES		YES	Positive	Negative	Negative	Negative					Positive	Negative	Negative	Negative	
260		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Positive	Negative	
262	YES	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Positive	
292		YES	YES					Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
293		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
294		YES	YES					Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
297		YES	YES					NT	NT	NT	NT	NT	NT	NT	NT	Very high cellular mortality.

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Lab No.	PBL with DTT				T-cell with DTT				B-cell with DTT				Cell viability %		
	Serum 1 reaction strength	Serum 2 reaction strength	Serum 3 reaction strength	Serum 4 reaction strength	Serum 1 reaction strength	Serum 2 reaction strength	Serum 3 reaction strength	Serum 4 reaction strength	Serum 1 reaction strength	Serum 2 reaction strength	Serum 3 reaction strength	Serum 4 reaction strength	PBL	T-cells	B-cells
112	4	2	2	2									90		
119	1	1	1	1									90		
120					1	1	1	1	8	1	1	1		100	100
133					2	2	2	2	8	2	8	2	70	75	70
139	1	1	1	1	1	1	1	1	8	1	1	1	80	80	80
143					1	2	1	1						78.2	
147	1	1	1	1	1	1	1	1	8	1	1	1	99	99	90
154														90	90
157	1	1	1	1									95		
159					1	1	1	1	4	1	1	1		80	70
163					1	1	1	1	6	1	1	1		90	90
169					6	1	1	1	1	1	1	1		96	96
189	1	1	1	1									88		
190					5	5	5	5	95	5	5	10		95	100
193					1	1	1	1	8	1	1	1		99	99
194					1	1	1	1	4	1	1	1	95		
197													90	90	90
209					1	1	1	1	8	1	1	1		<10	<10
216	1	1	1	1									95		
229													85		
235	4	1	1	1									80		
238	2	1	1	1	1	1	1	1	8	1	1	1	80	90	50
239													96	96	96
245	4	2	1	1	1	1	1	2	8	4	1	1	100	100	100
252	2	1	1	1					6	1	1	1	65		65
260					-	-	-	-	++	-	++	-		90	90
262	1	1	1	1	1	1	1	1	8	1	1	6	100	100	100
292					1	1	1	1	1	1	1	1		75	50
293					0	0	0	0	8+	0	0	0		80	80
294					0	0	0	0	4	0	2	0		99	99