

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

PBL/T-CELL AND B-CELL CROSSMATCHING RESULTS WITHOUT DTT OF SAMPLE 2A06/2017 WB

DESPATCHED ON 23 MAY 2017

HLA PHENOTYPE OF BLOOD DONOR: HLA-A3, A24; B7, B70; Cw7, Cw-; DR4, DR15; DQ6, DQ8

	Summary of Results													
	PBL				T-Cells				B-Cells					
Total tested	11	10	11	10	21	20	20	20	15	15	16	17	17	
Positive	0	1	9	2	1	0	16	2	3	15	13	15	15	
Negative	11	9	2	8	20	20	4	18	12	0	3	2	2	
NT/Equivocal	0	1	0	1	0	1	1	1	7	7	6	5	5	
% Positive	0.0%	10.0%	81.8%	20.0%	4.8%	0.0%	80.0%	10.0%	20.0%	100.0%	81.3%	88.2%	88.2%	
% Negative	100.0%	90.0%	18.2%	80.0%	95.2%	100.0%	20.0%	90.0%	80.0%	0.0%	18.8%	11.8%	11.8%	
Consensus	Negative	Negative	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Positive	Positive	Positive	
HLA Antibody Specificity (Defined By CDC)	A32 B44 DR7	DR5 DR6 DQ6	A3	DQ3	A32 B44 DR7	DR5 DR6 DQ6	A3	DQ3	A32 B44 DR7	DR5 DR6 DQ6	A3	DQ3	DQ3	

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	
9	YES	YES	YES	Negative	Equivocal	Positive	Positive	Negative	Equivocal	Positive	Positive	Equivocal	Equivocal	Positive	Positive	Unable to carry out B cell crossmatch due to product recall by supplier. Scored using the International Histocompatibility workshop scoring system.
11	YES	YES	YES	Negative	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Equivocal	Positive	Positive	Positive	
12	YES	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	NT	NT	NT	NT	
14	YES	YES	YES					Negative	Negative	Positive	Negative	Negative	Positive	Positive	Positive	
15																
20	YES	YES	YES	Negative	Negative	Positive	Negative					NT	NT	NT	NT	B cell crossmatching not possible due to Dynabead product recall
23		YES	YES					Negative	Negative	Positive	Negative	Negative	Positive	Positive	Positive	
24		YES	YES					Negative	Negative	Positive	Negative	Positive	Positive	Positive	Positive	
25		YES	YES					Negative	Negative	Negative	Negative	Negative	Equivocal	Negative	Positive	
28		YES	YES					Negative	Negative	Positive	Negative	NT	NT	NT	NT	
34		YES	YES					Negative	Negative	Positive	Negative	Negative	Positive	Positive	Positive	
35	YES	YES	YES	Negative	Negative	Positive	Negative	Negative	Negative	Positive	Negative					
38	YES	YES	YES	Negative	Negative	Positive	Positive	Negative	Negative	Positive	Negative	NT	NT	NT	NT	B cell viability less than 20%. B cells were separated with Class II Dynabeads product code 21003 Lot 00461955. The Dynabeads are the subject of a product recall.
39		YES	YES					Positive	Negative	Positive	Negative	NT	NT	NT	NT	
41		YES	YES					Negative	Negative	Positive	Negative	Positive	Positive	Positive	Positive	
42	YES	YES	YES	Negative	Negative	Positive	Negative					Negative	Positive	Positive	Positive	
45		YES	YES					Negative	Negative	Positive	Negative	Negative	Positive	Positive	Positive	
51		YES	YES	Negative	Negative	Positive	Equivocal	Negative	Negative	Positive	Negative	Negative	Positive	Positive	Positive	
54		YES	YES					Negative	Negative	Positive	Negative	Positive	Positive	Positive	Positive	
58		YES	YES					Negative	Negative	Positive	Negative	Negative	Positive	Positive	Positive	
117	YES			Negative	Negative	Positive	Negative									
136		YES						Negative	Negative	Negative	Negative					
149	YES			Negative	Negative	Positive	Negative									
205	YES		YES	Negative	Positive	Negative	Negative					Negative	Positive	Negative	Negative	
212		YES	YES	Negative	Positive	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	
311		YES	YES					Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	We used the dynabeads class II till a recent period. Our supplier provided us other beads, which were used for this exercise, but the results are not always satisfactory. Our results with serum 3 are not consistent (weak positivity on T cells, negativity on B cells, with and without DTT treatment). But we don't have the possibility to check them, as it would be done in routine. We are not confident yet in the results with obtain with our substitution class II beads. Moreover, we are wondering if we could not observe the same problem with the class I Dynabeads as the one we had on class II Dynabeads.
315		YES	YES					Negative	Negative	Negative	Negative	Negative	Positive	Positive	Positive	

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PBL/T-CELL AND B-CELL CROSSMATCHING RESULTS WITHOUT DTT OF SAMPLE 2A06/2017 WB

DESPATCHED ON 23 MAY 2017

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			6	4			4	4			2	6	95	95	95
11			6				8			8	8	8	90	95	95
12	1	1	1	1	1	1	6	1	NT	NT	NT	NT	95	98	NT
14					0	0	8	0	0	8	8	8		95	90
15														80	
20	1	1	8	1									90		
23					1	1	4	1						90	90
24					10%	10%	100%	20%	40%	100%	100%	100%		90	90
25					1	1	1	1	1		1	4		99	90
28					1	1	4	1						95	<20
34					1	1	4	1	1	8	8	8		98	80
35	1	1	8	1	1	1	8	1					90	80	
38	1	1	6	4	1	1	8	1					95	98	15
39					2		4							98	
41					10%	16%	70%	8%	23%	85%	70%	85%		95	90
42	<10%	~10%	>80%	~10%					<10%	~80%	>80%	>80%	95		90
45					1	1	8	1	1	8	8	8		95	50
51	0	0	8	1	0	0	8	0	0	8	8	8	95	90	80
54					0-10%	0-10%	91-100%	21-30%	51-60%	91-100%	91-100%	91-100%		95	85
58					5	5	100	5	5	100	100	100		95	90
117	1	1	8	1									85		
136														98	
149			6-8										80		
205		0-25%								75-100%					
212														95	95
311					1	1		2	1	4		6		90	90
315					1	1	1	1	1	8	6	8		90	90

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PBL/T-CELL AND B-CELL CROSSMATCHING RESULTS WITH DTT OF SAMPLE 2A06/2017 WB

DESPATCHED ON 23 MAY 2017

HLA PHENOTYPE OF BLOOD DONOR: HLA-A3, A24; B7, B70; Cw7, Cw-; DR4, DR15; DQ6, DQ8

					Summary of Results												
					PBL				T-Cells				B-Cells				
					10	9	10	9	19	18	18	19	13	14	14	15	
					0	1	8	2	0	1	15	3	1	13	11	12	
					10	8	2	7	19	17	3	16	12	1	3	3	
					0	1	0	1	0	1	1	0	8	7	7	6	
					0.0%	11.1%	80.0%	22.2%	0.0%	5.6%	83.3%	15.8%	7.7%	92.9%	78.6%	80.0%	
					100.0%	88.9%	20.0%	77.8%	100.0%	94.4%	16.7%	84.2%	92.3%	7.1%	21.4%	20.0%	
					Negative				Negative				Negative				
					Positive				Positive				Positive				
					Negative				Negative				Positive				
HLA Antibody Specificity (Defined By CDC)					A32 B44 DR7	DR5 DR6 DQ6	A3	DQ3	A32 B44 DR7	DR5 DR6 DQ6	A3	DQ3	A32 B44 DR7	DR5 DR6 DQ6	A3	DQ3	
					With DTT				With DTT				With DTT				
Lab No.	PBL Assessment	T Cell Assessment	B Cell Assessment		Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4	Comments
9	YES	YES	YES		Negative	Equivocal	Positive	Positive	Negative	Equivocal	Positive	Positive	Negative	Equivocal	Positive	Positive	<p>Unable to carry out B cell crossmatch due to product recall by supplier. Scored using the International Histocompatibility workshop scoring system.</p> <p>Class II dynabeads recalled hence B cell not tested. Serum 4 hemolysed.</p> <p>B cell crossmatching not possible due to Dynabead product recall</p> <p>B cell viability was <20%. Unhappy to report B cell results.</p> <p>B cell viability less than 20%. B cells were separated with Class II Dynabeads product code 21003 Lot 00461955. The Dynabeads are the subject of a product recall.</p> <p>Too few cells to report despite giving a good yield after separation</p> <p>We used the dynabeads class II till a recent period. Our supplier provided us other beads, which were used for this exercise, but the results are not always satisfactory.</p> <p>Our results with serum 3 are not consistent (weak positivity on T cells, negativity on B cells, with and without DTT treatment). But we don't have the possibility to check them, as it would be done in routine.</p> <p>We are not confident yet in the results with obtain with our substitution class II beads. Moreover, we are wondering if we could not observe the same problem with the class I Dynabeads as the one we had on class II Dynabeads.</p>
11	YES	YES	YES		Negative	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Equivocal	Positive	Positive	Positive	
12	YES	YES	YES		Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	NT	NT	NT	NT	
14		YES	YES						Negative	Negative	Positive	Negative	Negative	Positive	Positive	Positive	
15		YES	YES						Negative	Positive	Positive	Positive	NT	NT	NT	NT	
20	YES		YES		Negative	Negative	Positive	Negative					NT	NT	NT	NT	
23																	
24		YES	YES						Negative	Negative	Positive	Negative	Negative	Positive	Positive	Positive	
25		YES	YES						Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
28		YES	YES						Negative	Negative	Positive	Negative	NT	NT	NT	NT	
34		YES	YES						Negative	Negative	Positive	Negative	Negative	Positive	Positive	Positive	
35	YES	YES			Negative	Negative	Positive	Negative	Negative	Negative	Positive	Negative					
38	YES	YES	YES		Negative	Negative	Positive	Positive	Negative	Negative	Positive	Negative	NT	NT	NT	NT	
39		YES	YES						Negative	Negative	Positive	Negative	NT	NT	NT	NT	
41		YES	YES						Negative	Negative	Positive	Negative	Positive	Positive	Positive	Positive	
42	YES		YES		Negative	Negative	Positive	Negative					Negative	Positive	Positive	Positive	
45		YES	YES						Negative	Negative	Positive	Negative	Negative	Positive	Positive	Positive	
51		YES	YES		Negative	Negative	Positive	Equivocal	Negative	Negative	Positive	Negative	Negative	Positive	Positive	Positive	
54																	
58		YES	YES						Negative	Negative	Positive	Negative	Equivocal	Positive	Positive	Positive	
117																	
136																	
149	YES				Negative	Negative	Positive	Negative									
205	YES		YES		Negative	Positive	Negative	Negative					Negative	Positive	Negative	Negative	
212		YES	YES						Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	
311		YES	YES						Negative	Negative	Equivocal	Positive	Negative	Positive	Equivocal	Positive	
315		YES	YES						Negative	Negative	Negative	Negative	Negative	Positive	Positive	Positive	

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PBL/T-CELL AND B-CELL CROSSMATCHING RESULTS WITH DTT OF SAMPLE 2A06/2017 WB

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Lab No.	PBL with DTT				T-cell with DTT				B-cell with DTT				Cell viability %		
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9			6	4			4	4			2	6	95	95	95
11			6				8			8	8	8	90	95	95
12	1	1	2	1	1	1	6	1			8	8	95	98	NT
14					0	0	8	0	0	8	8	8		95	90
15						2	6	4						80	
20	1	1	3	1									90		
23														90	90
24					10%	10%	100%	20%	20%	100%	100%	100%		90	90
25					1	1	1	1	1	1	1	1		99	90
28					1	1	6	1						95	<20
34					1	1	6	1	1	8	8	8		98	80
35	1	1	8	1	1	1	8	1							
38	1	1	6	2	1	1	8	1					95	98	15
39							4							98	
41					5%	12%	80%	7%	40%	90%	95%	95%		95	90
42	<10%	<10%	>80%	~10%					<10%	>80%	>80%	>80%	95		90
45					1	1	8	1	1	8	8	8		95	50
51	0	0	8	1	0	0	8	0	0	8	8	8	95	90	80
54															
58					5	5	100	5	10	100	100	100		95	90
117															
136														98	
149			6-8										80		
205		0-25%								75-100%					
212															
311					1	1		2	1	2		4		90	90
315					1	1	1	1	1	8	8	8		90	90