

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

PBL/T-CELL AND B-CELL CROSSMATCHING RESULTS WITHOUT DTT OF SAMPLE 2A04/2016 UK

DISPATCHED ON 05TH APRIL 2016

HLA PHENOTYPE OF BLOOD DONOR: HLA-A1,A2; B44, B-; Cw5, Cw16; DR7, DR16; DQ2, DQ5

			Summary of Results								
			PBL/T-Cells				B-Cells				
Total tested			18	17	18	18	15	13	14	15	
Positive			0	14	17	6	1	10	13	15	
Negative			18	3	1	12	14	3	1	0	
NT/Equivocal			3	4	3	3	5	7	6	5	
% Positive			0.0%	82.4%	94.4%	33.3%	6.7%	76.9%	92.9%	100.0%	
% Negative			100.0%	17.6%	5.6%	66.7%	93.3%	23.1%	7.1%	0.0%	
Consensus			Negative	Positive	Positive	Not Assessed	Negative	Positive	Positive	Positive	
HLA Antibody Specificity (Defined By CDC)			B5	A1	A1,A11,Cw4+	A10+	B5	A1	A1,A11,Cw4+	A10+	
			Without DTT				Without DTT				
Lab No.	PBL/T Cell Assessment	B Cell Assessment	Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4	Comments
9	YES	YES	Negative	<i>Equivocal</i>	Positive	Negative	Negative	<i>Equivocal</i>	Positive	Positive	
11	YES	YES	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	Low cell viability
12	YES	YES	Negative	<i>Negative</i>	<i>Negative</i>	Negative	Negative	<i>Negative</i>	Positive	Positive	
14	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	
15	YES	YES	Negative	<i>Negative</i>	Positive	Negative	Negative	<i>Negative</i>	Positive	Positive	
20	YES	YES	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	Inconsistent results
23	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	
24	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	
25	YES	YES	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	Delivery error
28	YES	YES	Negative	<i>Negative</i>	Positive	Negative	Negative	<i>Negative</i>	<i>Negative</i>	Positive	
34	YES	YES	Negative	Positive	Positive	Negative	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	Poor cell viability
35	YES	NO	Negative	Positive	Positive	Positive					
38	YES	YES	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	
39	YES	YES	Negative	Positive	Positive	Negative	<i>NT</i>	<i>NT</i>	<i>NT</i>	<i>NT</i>	Poor cell viability
41	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	
42	YES	YES	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	
45	YES	YES	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	Viability was a problem for both T and B cells
51	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	
54	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	
58	YES	YES	Negative	Positive	Positive	Positive	Negative	<i>Equivocal</i>	<i>Equivocal</i>	Positive	
62	YES	YES	Negative	Positive	Positive	Positive	<i>Positive</i>	Positive	Positive	Positive	

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Lab No.	PBL/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	PBL	T-cells	B-cells
9	0		2	0	0		4	8		95	90
11	NT	NT	NT	NT	NT	NT	NT	NT			
12	1	1	1	1	1	1	2	8	95	95	95
14	0	6	6	0	0	8	6	8		90	75
15			6				6	8		95	95
20	NT	NT	NT	NT	NT	NT	NT	NT	90	90	90
23	1	4	6	1	1	4	4	8		90	90
24	10%	90%	90%	20%	30%	60%	60%	100%		90	70
25	NT	NT	NT	NT	NT	NT	NT	NT			
28	1	1	8	1	1	1	1	8			
34	1	2	2	1	NT	NT	NT	NT		90	50
35	1	6	6	4					90	60	
38	1	8	8	4	1	4	6	8	90	99	85
39		2	2		NT	NT	NT	NT		98	<90
41	2	4	6	2	2	4	6	8		95	95
42	<10%	40-60%	40-60%	20-40%	<10%	40-60%	40-60%	80-100%	90		80
45	1	8	6	4	1	4	4	6		80	50
51	0	4-6	6-8	0	0	2-4	4-6	8		90	90
54	0%	50%	70%	0%	10%	50%	50%	100%		99	90
58	<5%	80%	100%	10%	<5%	5%	15%	100%		95	95
62	1	8	8	6	4	8	8	8		100	95

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			Summary of Results								
			PBL/T-Cells				B-Cells				
Total tested			14	12	14	14	11	10	11	11	
Positive			0	10	12	5	0	8	11	11	
Negative			14	2	2	9	11	2	0	0	
NT/Equivocal			4	6	4	4	6	7	6	6	
% Positive			0.0%	83.3%	85.7%	35.7%	0.0%	80.0%	100.0%	100.0%	
% Negative			100.0%	16.7%	14.3%	64.3%	100.0%	20.0%	0.0%	0.0%	
Consensus			Negative	Positive	Positive	Not Assessed	Negative	Positive	Positive	Positive	
HLA Antibody Specificity (Defined By CDC)			B5	A1	A1,A11,Cw4+	A10+	B5	A1	A1,A11,Cw4+	A10+	
			With DTT				With DTT				
Lab No.	PBL/T Cell Assessment	B Cell Assessment	Serum 1	Serum 2	Serum 3	Serum 4	Serum 1	Serum 2	Serum 3	Serum 4	Comments
9	YES	YES	Negative	Equivocal	Positive	Negative	Negative	Equivocal	Positive	Positive	
11	YES	YES	NT	NT	NT	NT	NT	NT	NT	NT	Low cell viability
12	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Positive	
14	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	
15	YES	YES	Negative	Negative	Positive	Negative	Negative	Negative	Positive	Positive	
20	YES	YES	NT	NT	NT	NT	NT	NT	NT	NT	Inconsistent results
24	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	
25	YES	YES	NT	NT	NT	NT	NT	NT	NT	NT	Delivery error
28	YES	YES	NT	NT	NT	NT	NT	NT	NT	NT	Technically unsatisfactory
34	YES	YES	Negative	Positive	Negative	Negative	NT	NT	NT	NT	Poor cell viability
35	YES	NO	Negative	Positive	Positive	Positive					
38	YES	YES	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	
39	YES	YES	Negative	Equivocal	Positive	Negative	NT	NT	NT	NT	Poor cell viability
41	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	
42	YES	YES	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	
45	YES	YES	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	Viability was a problem for both T and B cells
51	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	
58	YES	YES	Negative	Positive	Positive	Positive	Negative	Positive	Positive	Positive	

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Lab No.	PBL/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	PBL	T-cells	B-cells
9	0		2	0	0		4	8		95	90
11	NT	NT	NT	NT	NT	NT	NT	NT			
12	1	1	1	1	1	1	4	8	95	95	95
14	0	4	4	0	0	6	6	8		90	75
15			6				6	8		95	95
20	NT	NT	NT	NT	NT	NT	NT	NT	90	90	90
24	10%	90%	90%	10%	20%	60%	60%	100%		90	70
25	NT	NT	NT	NT	NT	NT	NT	NT			
28	NT	NT	NT	NT	NT	NT	NT	NT			
34	1	6	1	1	NT	NT	NT	NT		90	50
35	1	6	6	4					90	60	
38	1	8	8	2	1	4	4	8	90	99	85
39			2		NT	NT	NT	NT		98	<90
41	2%	4%	4	2	2%	4%	6	8		95	95
42	<10%	20-40%	20-40%	20-40%	<10%	20-40%	20-40%	80-100%	90		80
45	1	8	6	4	1	6	6	8		80	50
51	0	2-4	6-8	0	0	1-2	2-4	6-8		90	90
58	<5%	100%	100%	40%	<5%	80%	90%	100%		95	95