

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

PBL/T-CELL AND B-CELL CROSSMATCHING RESULTS WITHOUT DTT OF SAMPLE 2A10/2016 UK

DISPATCHED ON 20TH SEPTEMBER 2016

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A3; B18, B60; Cw7, Cw3; DR4, DR14; DQ5, DQ8

			Summary of Results								
			PBL/T-Cells				B-Cells				
Total tested			19	18	18	20	19	19	18	16	
Positive			8	6	2	1	12	7	4	5	
Negative			11	12	16	19	7	12	14	11	
NT/Equivocal			2	3	3	1	1	1	2	4	
% Positive			42.1%	33.3%	11.1%	5.0%	63.2%	36.8%	22.2%	31.3%	
% Negative			57.9%	66.7%	88.9%	95.0%	36.8%	63.2%	77.8%	68.8%	
Consensus			Not Assessed	Not Assessed	Negative	Negative	Not Assessed	Not Assessed	Negative	Not Assessed	
HLA Antibody Specificity (Defined By CDC)			DR1	A2	(B21 B62)+	Cw4	DR1	A2	(B21 B62)+	Cw4	
			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	Positive	Positive	Equivocal	Negative	Positive	Positive	Equivocal	Negative	Insufficient cells in test wells to establish result of serum 4 Technically unsatisfactory
11	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	
12	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
14	YES	YES	Positive	Positive	Positive	Positive	Positive	Positive	Positive	Positive	
15	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
20	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
23	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
24	YES	YES	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Positive	
25	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Equivocal	
28	YES	YES	NT	NT	NT	NT	NT	NT	NT	NT	
34	YES	YES	Equivocal	Equivocal	Negative	Negative	Positive	Positive	Negative	Negative	
35	YES	NO	Positive	Positive	Negative	Negative	Positive	Positive	Negative	Negative	
38	YES	YES	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
39	YES	YES	Negative	Equivocal	Negative	Negative	Positive	Positive	Positive	Positive	
41	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
42	YES	YES	Positive	Positive	Equivocal	Negative	Positive	Negative	Negative	Positive	
45	YES	YES	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
51	YES	YES	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Negative	
54	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
58	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Equivocal	
62	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Equivocal	

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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	2	2	-	0	4	4	-	0		95	90
11	-	2	4	-	-	2	2	2	95	95	80
12	-	-	-	-	-	-	-	-	90	99	90
14	4	2	2	2	8	6	4	4		90	80
15	-	-	-	-	-	-	-	-		90	80
20	1	1	1	1	1	1	1	1	80		90
23	1	1	1	1	2	1	1	2		90	50
24	30%	30%	5%	5%	50%	40%	30%	30%	90		
25	1	1	1	1	1	1	1	1		99	80
28	NT	NT	NT	NT	NT	NT	NT	NT		85	50
34	-	-	1	1	8	4	1	1		95	85
35	4	4	1	1					90	90	
38	2	1	1	1	4	1	1	1	95	98	80
39	-	1	-	-	6	2	4	2		95	90
41	-	-	-	-	45%	-	-	-		95	95
42	40-60%	40-60%	-	<10%	40-60%	<10%	<10%	20-40%	95		95
45	4	1	1	1	4	1	1	1		95	90
51	4	0	0	0	6	2	0	0	90	90	85
54	5	5	5	5	20	10	10	10		95	90
58	5	5	5	5	25	5	5	-		95	90
62	1	1	1	1	8	1	1	2		99	98

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Lab No.	Summary of Results															
	PBL				PBL Without DTT				T-Cells				T-Cells Without DTT			
	Without DTT				Serum 1	Serum 2	Serum 3	Serum 4	Without DTT				Serum 1	Serum 2	Serum 3	Serum 4
	Serum 1	Serum 2	Serum 3	Serum 4	reaction strength	reaction strength	reaction strength	reaction strength	Serum 1	Serum 2	Serum 3	Serum 4	reaction strength	reaction strength	reaction strength	reaction strength
9	Positive	Positive	Equivocal	Negative	4	2	-	0	Positive	Positive	Equivocal	Negative	2	2	-	0
15									Negative	Negative	Negative	Negative	-	-	-	-
34									Equivocal	Equivocal	Negative	Negative	-	-	1	1
42	Positive	Positive	Equivocal	Negative	40-60%	40-60%	-	<10%								

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

PBL/T-CELL AND B-CELL CROSSMATCHING RESULTS WITH DTT OF SAMPLE 2A10/2016 UK

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HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A3; B18, B60; Cw7, Cw3; DR4, DR14; DQ5, DQ8

			Summary of Results								
			PBL/T-Cells				B-Cells				
Total tested			15	14	14	17	16	14	15	16	
Positive			7	4	0	0	10	6	2	2	
Negative			8	10	14	17	6	8	13	14	
NT/Equivocal			3	4	4	1	1	3	2	1	
% Positive			46.7%	28.6%	0.0%	0.0%	62.5%	42.9%	13.3%	12.5%	
% Negative			53.3%	71.4%	100.0%	100.0%	37.5%	57.1%	86.7%	87.5%	
Consensus			Not Assessed	Not Assessed	Negative	Negative	Not Assessed	Not Assessed	Negative	Negative	
HLA Antibody Specificity (Defined By CDC)			DR1	A2	(B21 B62)+	Cw4	DR1	A2	(B21 B62)+	Cw4	
			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	Positive	Positive	Equivocal	Negative	Positive	Positive	Equivocal	Negative	Technically unsatisfactory
11	YES	YES	Negative	Equivocal	Equivocal	Negative	Negative	Positive	Positive	Positive	
12	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
14	YES	YES	Positive	Positive	Negative	Negative	Positive	Positive	Negative	Negative	
15	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
20	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
24	YES	YES	Positive	Positive	Negative	Negative	Positive	Equivocal	Negative	Negative	
25	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
28	YES	YES	NT	NT	NT	NT	NT	NT	NT	NT	
34	YES	YES	Equivocal	Equivocal	Negative	Negative	Positive	Positive	Negative	Negative	
35	YES	NO	Negative	Negative	Negative	Negative					
38	YES	YES	Positive	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
39	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Positive	
41	YES	YES	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
42	YES	YES	Positive	Positive	Equivocal	Negative	Positive	Negative	Negative	Negative	
45	YES	YES	Positive	Negative	Negative	Negative	Positive	Negative	Negative	Negative	
51	YES	YES	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Negative	
58	YES	YES	Equivocal	Equivocal	Negative	Negative	Positive	Equivocal	Negative	Negative	
The quality of cells was very poor											

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	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	2	2	-	0	4	4	-	0		95	90
11	-	-	-	-	-	2	2	2	95	95	80
12	-	-	-	-	-	-	-	-	90	99	90
14	2	2	0	0	8	6	0	0		90	80
15	-	-	-	-	-	-	-	-		90	80
20	1	1	1	1	1	1	1	1	80		90
24	40%	30%	5%	5%	50%	30%	20%	20%	90		
25	1	1	1	1	1	1	1	1		99	80
28	NT	NT	NT	NT	NT	NT	NT	NT		85	50
34	-	-	1	1	8	4	1	1		95	85
35	1	1	1	1					90	90	
38	2	1	1	1	1	1	1	1	95	98	80
39	-	-	-	-	8	6	6	4		95	90
41	-	-	-	-	30%	-	-	-		95	95
42	>80%	>80%	-	<10%	40-60%	<10%	<10%	<10%	95		95
45	4	1	1	1	4	1	1	1		95	90
51	2	0	00-Jan	00-Jan	4	2	0	0	90	90	85
58	-	-	5	5	80	-	5	5		95	90

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	With DTT				Serum 1	Serum 2	Serum 3	Serum 4	With DTT				Serum 1	Serum 2	Serum 3	Serum 4
	Serum 1	Serum 2	Serum 3	Serum 4	reaction strength	reaction strength	reaction strength	reaction strength	Serum 1	Serum 2	Serum 3	Serum 4	reaction strength	reaction strength	reaction strength	reaction strength
9	Positive	Positive	Equivocal	Negative	4	2	-	0	Positive	Positive	Equivocal	Negative	2	2	-	0
15									Negative	Negative	Negative	Negative	-	-	-	-
34									Equivocal	Equivocal	Negative	Negative	-	-	1	1
42	Positive	Positive	Equivocal	Negative	>80%	>80%	-	<10%								