

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

PBL/T-CELL AND B-CELL CROSSMATCHING RESULTS WITHOUT DTT OF SAMPLE 2A09/2016 UK

DISPATCHED ON 20TH SEPTEMBER 2016

HLA PHENOTYPE OF BLOOD DONOR: HLA-A2, A3; B7, B60; Cw7, Cw10; DR4, DR15; DQ6, DQ7

			Summary of Results								
			PBL/T-Cells				B-Cells				
Total tested			20	21	21	21	20	19	18	19	
Positive			2	9	7	0	1	13	7	4	
Negative			18	12	14	21	19	6	11	15	
NT/Equivocal			1	0	0	0	0	1	2	1	
% Positive			10.0%	42.9%	33.3%	0.0%	5.0%	68.4%	38.9%	21.1%	
% Negative			90.0%	57.1%	66.7%	100.0%	95.0%	31.6%	61.1%	78.9%	
Consensus			Negative	Not Assessed	Not Assessed	Negative	Negative	Not Assessed	Not Assessed	Negative	
HLA Antibody Specificity (Defined By CDC)			(B21 B62)+	DR1	A2	Cw4	(B21 B62)+	DR1	A2	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	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative	B-cell results: Serum 2 and 4 both had ~20% cell death without DTT. Result equivocal.
11	YES	YES	Positive	Positive	Negative	Negative	Negative	Positive	Negative	Negative	
12	YES	YES	Negative	Negative	Negative	Negative	Negative	Equivocal	Negative	Equivocal	
14	YES	YES	Negative	Positive	Positive	Negative	Negative	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	Positive	Positive	Negative	
24	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Positive	
25	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
28	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
34	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative	
35	YES	NO	Negative	Positive	Positive	Negative					
38	YES	YES	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	
39	YES	YES	Positive	Positive	Negative	Negative	Positive	Positive	Positive	Positive	
41	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
42	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Equivocal	Negative	
45	YES	YES	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	
51	YES	YES	Equivocal	Positive	Positive	Negative	Negative	Positive	Positive	Negative	
54	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
58	YES	YES	Negative	Negative	Negative	Negative	Negative	Positive	Equivocal	Negative	
62	YES	YES	Negative	Negative	Negative	Negative	Negative	Positive	Negative	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	2	0	0	4	4	0		95	90
11	2	4	-	-	-	4	-	-	95	95	80
12	-	-	-	-	-	-	-	-	90	99	95
14	0	4	4	0	0	8	8	4		90	90
15	-	-	-	-	-	-	-	-		90	90
20	1	1	1	1	1	1	1	1	80		90
23	1	1	1	1	1	6	4	1		90	80
24	5%	20%	30%	5%	20%	70%	50%	50%	90		
25	1	1	1	1	1	1	1	1		99	80
28	1	1	1	1	1	1	1	1		99	99
34	1	4	2	1	1	4	2	1		99	90
35	1	6	6	1					90	90	
38	1	1	1	1	1	4	1	1	90	95	85
39	2	2	-	-	2	8	6	2		90	90
41	-	-	-	-	-	-	-	-		95	98
42	<10%	40-60%	60-80%	<10	<10	40-60%	-	<10%	95		95
45	1	1	1	1	1	4	1	1		99	95
51	-	4	4	0	0	6	2	0	85	85	85
54	<10	<10	<10	<10	15	15	<10	25		95	90
58	5	5	5	5	5	20		10		95	90
62	1	1	1	1	1	4	1	4		99	99

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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	Negative	Positive	Positive	Negative	0	2	2	0	Negative	Positive	Positive	Negative	0	2	2	0
15									Negative	Negative	Negative	Negative	-	-	-	-
34									Negative	Positive	Positive	Negative	1	4	2	1
42	Negative	Positive	Positive	Negative	<10%	40-60%	60-80%	<10%								

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			Summary of Results								
			PBL/T-Cells				B-Cells				
Total tested			17	17	17	18	17	16	15	17	
Positive			1	7	5	0	1	10	6	1	
Negative			16	10	12	18	16	6	9	16	
NT/Equivocal			1	1	1	0	0	1	2	0	
% Positive			5.9%	41.2%	29.4%	0.0%	5.9%	62.5%	40.0%	5.9%	
% Negative			94.1%	58.8%	70.6%	100.0%	94.1%	37.5%	60.0%	94.1%	
Consensus			Negative	Not Assessed	Not Assessed	Negative	Negative	Not Assessed	Not Assessed	Negative	
HLA Antibody Specificity (Defined By CDC)			(B21 B62)+	DR1	A2	Cw4	(B21 B62)+	DR1	A2	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	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative	
11	YES	YES	Positive	Positive	Negative	Negative	Negative	Equivocal	Negative	Negative	
12	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
14	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	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	Negative	Negative	Negative	Negative	Negative	Positive	Positive	Negative	
25	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
28	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
34	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Positive	Negative	
35	YES	NO	Negative	Positive	Negative	Negative					
38	YES	YES	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	
39	YES	YES	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Positive	
41	YES	YES	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	
42	YES	YES	Negative	Positive	Positive	Negative	Negative	Positive	Equivocal	Negative	
45	YES	YES	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative	
51	YES	YES	Equivocal	Positive	Positive	Negative	Negative	Positive	Positive	Negative	The quality of the cells was very poor
58	YES	YES	Negative	Equivocal	Equivocal	Negative	Negative	Positive	Equivocal	Negative	

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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	2	0	0	4	4	0		95	90
11	2	4	-	-	-	-	-	-	95	95	80
12	-	-	-	-	-	-	-	-	90	99	95
14	0	2	2	0	0	8	8	0		90	90
15	-	-	-	-	-	-	-	-		90	90
20	1	1	1	1	1	1	1	1	80		90
24	10%	10%	10%	10%	40%	90%	60%	30%	90		
25	1	1	1	1	1	1	1	1		99	80
28	1	1	1	1	1	1	1	1		99	99
34	1	4	2	1	1	6	4	1		99	90
35	1	4	1	1					90	90	
38	1	1	1	1	1	6	1	1	90	95	85
39	-	-	-	-	2	8	6	4		90	90
41	-	-	-	-	-	-	-	-		95	98
42	<10%	>80%	>80%	<10%	<10%	60-80%	-	<10%	95		95
45	1	1	1	1	1	4	1	1		99	95
51	-	4	04-Jan	00-Jan	0	6	2	0	85	85	85
58	5			5	5	80		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	Negative	Positive	Positive	Negative	0	2	2	0	Negative	Positive	Positive	Negative	0	2	2	0
15									Negative	Negative	Negative	Negative	-	-	-	-
34									Negative	Positive	Positive	Negative	1	4	2	1
42	Negative	Positive	Positive	Negative	<10%	>80%	>80%	<10%								