

EQA round: IH1/19 - Blood Group Serology

Key: >>> ... marks correct (expected) result
> ... marks conditionally correct (acceptable) result
± ... marks the result not evaluated

N ... number of the results
Nrel ... relative number of the results

Test

Sample	Group	N	Result	N _{rel}
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Set of samples 1 and 2**(700) AB0 blood group**

E1 and S1 All results		1	Not specified	0,50 %
		>>> 201	Blood group: A	100 %
_____ Total per sample: n = 202	----- Success: 100 %			
E2 and S2 All results		>>> 202	Blood group: B	100 %
_____ Total per sample: n = 202	----- Success: 100 %			
Total success: 100 %				

(703) A subgroup

E1 and S1 All results		>>> 60	A subgroup A1	100 %
_____ Total per sample: n = 60	----- Success: 100 %			
E2 and S2 All results		>>> 60	Not specified	100 %
_____ Total per sample: n = 60	----- Success: 100 %			
Total success: 100 %				

(705) Rh D antigen (blood-donor)

E1 and S1 All results		>>> 127	Negative (RhD-)	100 %
_____ Total per sample: n = 127	----- Success: 100 %			
E2 and S2 All results		>>> 127	Negative (RhD-)	100 %
_____ Total per sample: n = 127	----- Success: 100 %			
Total success: 100 %				

(709) Rh D antigen (recipient)

E1 and S1 All results		>>> 189	Negative (RhD-)	100 %
_____ Total per sample: n = 189	----- Success: 100 %			
E2 and S2 All results		>>> 189	Negative (RhD-)	100 %
_____ Total per sample: n = 189	----- Success: 100 %			
Total success: 100 %				

(715) Antigen C

E1 and S1 All results		>>> 95	Negative	100 %
_____ Total per sample: n = 95	----- Success: 100 %			
E2 and S2 All results		>>> 95	Negative	100 %
_____ Total per sample: n = 95	----- Success: 100 %			
Total success: 100 %				

(716) Antigen c

E1 and S1 All results		>>> 95	Positive	100 %
_____ Total per sample: n = 95	----- Success: 100 %			
E2 and S2 All results		>>> 95	Positive	100 %
_____ Total per sample: n = 95	----- Success: 100 %			
Total success: 100 %				

(717) Antigen Cw

E1 and S1 All results		>>> 73	Negative	100 %
_____ Total per sample: n = 73	----- Success: 100 %			
E2 and S2 All results		>>> 73	Negative	100 %
_____ Total per sample: n = 73	----- Success: 100 %			
Total success: 100 %				

(718) Antigen E

E1 and S1 All results		>>> 95	Negative	100 %
_____ Total per sample: n = 95	----- Success: 100 %			
E2 and S2 All results		>>> 95	Negative	100 %
_____ Total per sample: n = 95	----- Success: 100 %			
Total success: 100 %				

(719) Antigen e

E1 and S1 All results		1	Negative	1,1 %
		>>> 94	Positive	99 %
_____ Total per sample: n = 95	----- Success: 99 %			
E2 and S2 All results		1	Negative	1,1 %
		>>> 94	Positive	99 %
_____ Total per sample: n = 95	----- Success: 99 %			
Total success: 99 %				

(720) Antigen K

E1 and S1 All results		>>> 103	Negative	100 %
_____ Total per sample: n = 103	----- Success: 100 %			
E2 and S2 All results		>>> 103	Negative	100 %
_____ Total per sample: n = 103	----- Success: 100 %			

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Test	Sample	Group	N	Result	N _{rel}
Total success: 100 %					
(721) Antigen k					
E1 and S1 All results			>>> 53	Positive	100 %
_____ Total per sample: n = 53		----- Success: 100 %			
E2 and S2 All results			>>> 53	Positive	100 %
_____ Total per sample: n = 53		----- Success: 100 %			
Total success: 100 %					
(722) Antigen M					
E1 and S1 All results			>>> 52	Negative	100 %
_____ Total per sample: n = 52		----- Success: 100 %			
E2 and S2 All results			>>> 52	Positive	100 %
_____ Total per sample: n = 52		----- Success: 100 %			
Total success: 100 %					
(723) Antigen N					
E1 and S1 All results			>>> 49	Positive	100 %
_____ Total per sample: n = 49		----- Success: 100 %			
E2 and S2 All results			>>> 48	Negative	98 %
_____ Total per sample: n = 49		----- Success: 98 %	1	Positive	2,0 %
Total success: 98 %					
(724) Antigen S					
E1 and S1 All results			>>> 51	Positive	100 %
_____ Total per sample: n = 51		----- Success: 100 %			
E2 and S2 All results			>>> 51	Positive	100 %
_____ Total per sample: n = 51		----- Success: 100 %			
Total success: 100 %					
(725) Antigen s					
E1 and S1 All results			>>> 51	Positive	100 %
_____ Total per sample: n = 51		----- Success: 100 %			
E2 and S2 All results			>>> 51	Positive	100 %
_____ Total per sample: n = 51		----- Success: 100 %			
Total success: 100 %					
(726) Antigen P1					
E1 and S1 All results			>>> 38	Positive	100 %
_____ Total per sample: n = 38		----- Success: 100 %			
E2 and S2 All results			>>> 38	Positive	100 %
_____ Total per sample: n = 38		----- Success: 100 %			
Total success: 100 %					
(727) Antigen Fya					
E1 and S1 All results			>>> 53	Positive	100 %
_____ Total per sample: n = 53		----- Success: 100 %			
E2 and S2 All results			>>> 52	Positive	98 %
_____ Total per sample: n = 53		----- Success: 98 %	1	Negative	1,9 %
Total success: 98 %					
(728) Antigen Fyb					
E1 and S1 All results			>>> 54	Negative	100 %
_____ Total per sample: n = 54		----- Success: 100 %			
E2 and S2 All results			>>> 52	Positive	96 %
_____ Total per sample: n = 54		----- Success: 96 %	2	Negative	3,7 %
Total success: 96 %					
(729) Antigen Jka					
E1 and S1 All results			>>> 52	Positive	100 %
_____ Total per sample: n = 52		----- Success: 100 %			
E2 and S2 All results			>>> 52	Positive	100 %
_____ Total per sample: n = 52		----- Success: 100 %			
Total success: 100 %					
(730) Antigen Jkb					
E1 and S1 All results			>>> 51	Negative	100 %
_____ Total per sample: n = 51		----- Success: 100 %			
E2 and S2 All results			>>> 51	Positive	100 %
_____ Total per sample: n = 51		----- Success: 100 %			
Total success: 100 %					
(731) Antigen Lua					
E1 and S1 All results			>>> 38	Negative	100 %

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Sample	Group	N	Result	N _{rel}
(732) Antigen Lub				
Total per sample: n = 38 Success: 100 %				
E2 and S2	All results	>>> 37	Negative	97 %
		1	Positive	2,6 %
Total success: 97 %				
(733) Antigen Lea				
Total per sample: n = 35 Success: 100 %				
E1 and S1	All results	>>> 35	Positive	100 %
E2 and S2	All results	>>> 35	Positive	100 %
Total success: 100 %				
(734) Antigen Leb				
Total per sample: n = 41 Success: 100 %				
E1 and S1	All results	>>> 41	Negative	100 %
E2 and S2	All results	>>> 40	Negative	98 %
		1	Positive	2,4 %
Total success: 98 %				
(737) Direct Coombs (antiglobulin) test				
Total per sample: n = 150 Success: 100 %				
E1 and S1	All results	>>> 150	Negative	100 %
E2 and S2	All results	>>> 148	Negative	99 %
		2	Positive	1,3 %
Total success: 99 %				
(741) Antibody screening (IAT, blood donor)				
Total per sample: n = 102 Success: 100 %				
E1 and S1	All results	> 20	Negative	20 %
		>>> 82	Positive	80 %
E2 and S2	All results	>>> 102	Positive	100 %
Total success: 100 %				
(743) Antibody screening (IAT, recipient)				
Total per sample: n = 170 Success: 97 %				
E1 and S1	All results	5	Negative	2,9 %
		>>> 165	Positive	97 %
E2 and S2	All results	>>> 170	Positive	100 %
Total success: 97 %				
(745) Antibody screening (IAT, pregnant)				
Total per sample: n = 139 Success: 97 %				
E1 and S1	All results	4	Negative	2,9 %
		>>> 135	Positive	97 %
E2 and S2	All results	>>> 139	Positive	100 %
Total success: 97 %				
(747) Antibody screening (enzyme test)				
Total per sample: n = 119 Success: 99 %				
E1 and S1	All results	1	Not specified	0,84 %
		>>> 114	Negative	96 %
		> 4	Positive	3,4 %
E2 and S2	All results	>>> 119	Positive	100 %
Total success: 99 %				
(750) Antibody identification				
Total per sample: n = 119 Success: 100 %				
E1 and S1	All results	2	Not specified	3,6 %
		>>> 5	anti-Fyb	8,9 %
		>>> 37	anti-Fyb; anti-M	66 %
		1	anti-Fyb; anti-M; anti-K	1,8 %
		>>> 7	anti-Fyb; anti-M; anti-Kpa	13 %
		1	anti-Jkb	1,8 %

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Sample	Group	N	Result	N _{rel}
E1 and S1	All results	>	3 anti-M	5,4 %
----- Total per sample: n = 56 ----- Success: 93 % -----				
E2 and S2	All results	>>>	55 anti-D 1 anti-D; anti-M	98 % 1,8 %
----- Total per sample: n = 56 ----- Success: 98 % -----				
Total success: 91 %				

(752) Antibody titre, Sample 1: 1st antibody

E1 and S1	All results	±	1 titre 0 (not measurable)	2,6 %
		±	7 titre 1	18 %
		±	8 titre 2	21 %
		±	17 titre 4	44 %
		±	5 titre 8	13 %
		±	1 titre 16	2,6 %
----- Total per sample: n = 39 ----- Success (only evaluated results): evaluation -----				

(753) Antibody titre, Sample 1: 2nd antibody

E1 and S1	All results	±	7 titre 0 (not measurable)	18 %
		±	17 titre 1	45 %
		±	10 titre 2	26 %
		±	2 titre 4	5,3 %
		±	2 titre 8	5,3 %
----- Total per sample: n = 38 ----- Success (only evaluated results): evaluation -----				

(756) Antibody titre, Sample 2: 1st antibody

E2 and S2	All results	±	2 titre 256	4,1 %
		±	10 titre 16	20 %
		±	12 titre 32	24 %
		±	16 titre 64	33 %
		±	9 titre 128	18 %
----- Total per sample: n = 49 ----- Success (only evaluated results): evaluation -----				

Set of samples 3

(760) Crossmatch

S1	All results	>>>	142 Crossmatch successful	100 %
----- Total per sample: n = 142 ----- Success: 100 % -----				
S2	All results		2 Crossmatch not successful	1,4 %
		>>>	140 Crossmatch successful	99 %
----- Total per sample: n = 142 ----- Success: 99 % -----				
Total success: 99 %				

(761) Crossmatch (segment K1)

S1	All results	>	107 Negative test	75 %
		>>>	35 Positive test	25 %
----- Total per sample: n = 142 ----- Success: 100 % -----				
S2	All results	>>>	140 Negative test	99 %
			2 Positive test	1,4 %
----- Total per sample: n = 142 ----- Success: 99 % -----				
Total success: 99 %				

(762) Serve transfusion product (segment K1)

S1	All results	±	55 Impossible, risk of haemolysis	39 %
		±	61 Decision depends on results of other tests not performed in our laboratory	44 %
		±	8 Only if more suitable products are not available	5,7 %
		±	16 Possible	11 %
----- Total per sample: n = 140 ----- Success (only evaluated results): evaluation -----				
S2	All results	±	4 Impossible, risk of haemolysis	2,9 %
		±	69 Decision depends on results of other tests not performed in our laboratory	49 %
		±	27 Only if more suitable products are not available	19 %
		±	40 Possible	29 %
----- Total per sample: n = 140 ----- Success (only evaluated results): evaluation -----				

(764) Crossmatch (segment K2)

S1	All results	>	27 Negative test	19 %
		>>>	115 Positive test	81 %
----- Total per sample: n = 142 ----- Success: 100 % -----				
S2	All results	>>>	142 Positive test	100 %
----- Total per sample: n = 142 ----- Success: 100 % -----				
Total success: 100 %				

(765) Serve transfusion product (segment K2)

S1	All results	±	118 Impossible, risk of haemolysis	84 %
		±	16 Decision depends on results of other tests not	11 %

Test

Sample	Group	N	Result	N _{rel}
S1			performed in our laboratory	
		± 5	Only if more suitable products are not available	3,5 %
		± 2	Possible	1,4 %
----- Total per sample: n = 141 -----		Success (only evaluated results): evaluation-----		
S2	All results	± 139	Impossible, risk of haemolysis	99 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,4 %
----- Total per sample: n = 141 -----		Success (only evaluated results): evaluation-----		

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End of report

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