

## EQA round: IH1/21 - 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 <sub>rel</sub>
<b>Set 1 and 2</b>				
<b>(700) AB0 blood group</b>				
E1 and S1	All results	>>> 194	Blood group: 0	100 %
Total per sample: n = 194		Success: 100 %		
E2 and S2	All results	3	Not specified	1.5 %
Total per sample: n = 194		>>> 191	Blood group: B	98 %
Total success: 98 %		Success: 98 %		
<b>(705) Rh D antigen (blood-donor)</b>				
E1 and S1	All results	>>> 123	Negative (RhD-)	100 %
Total per sample: n = 123		Success: 100 %		
E2 and S2	All results	>>> 123	Negative (RhD-)	100 %
Total per sample: n = 123		Success: 100 %		
Total success: 100 %				
<b>(709) Rh D antigen (recipient)</b>				
E1 and S1	All results	>>> 179	Negative (RhD-)	100 %
Total per sample: n = 179		Success: 100 %		
E2 and S2	All results	>>> 179	Negative (RhD-)	100 %
Total per sample: n = 179		Success: 100 %		
Total success: 100 %				
<b>(715) Antigen C</b>				
E1 and S1	All results	>>> 97	Negative	100 %
Total per sample: n = 97		Success: 100 %		
E2 and S2	All results	>>> 97	Negative	100 %
Total per sample: n = 97		Success: 100 %		
Total success: 100 %				
<b>(716) Antigen c</b>				
E1 and S1	All results	>>> 97	Positive	100 %
Total per sample: n = 97		Success: 100 %		
E2 and S2	All results	>>> 97	Positive	100 %
Total per sample: n = 97		Success: 100 %		
Total success: 100 %				
<b>(717) Antigen Cw</b>				
E1 and S1	All results	>>> 75	Negative	100 %
Total per sample: n = 75		Success: 100 %		
E2 and S2	All results	>>> 75	Negative	100 %
Total per sample: n = 75		Success: 100 %		
Total success: 100 %				
<b>(718) Antigen E</b>				
E1 and S1	All results	>>> 97	Negative	100 %
Total per sample: n = 97		Success: 100 %		
E2 and S2	All results	>>> 97	Negative	100 %
Total per sample: n = 97		Success: 100 %		
Total success: 100 %				
<b>(719) Antigen e</b>				
E1 and S1	All results	>>> 97	Positive	100 %
Total per sample: n = 97		Success: 100 %		
E2 and S2	All results	>>> 97	Positive	100 %
Total per sample: n = 97		Success: 100 %		
Total success: 100 %				
<b>(720) Antigen K</b>				
E1 and S1	All results	>>> 105	Negative	100 %
Total per sample: n = 105		Success: 100 %		
E2 and S2	All results	>>> 105	Negative	100 %
Total per sample: n = 105		Success: 100 %		
Total success: 100 %				
<b>(721) Antigen k</b>				
E1 and S1	All results	>>> 47	Positive	100 %
Total per sample: n = 47		Success: 100 %		
E2 and S2	All results	>>> 47	Positive	100 %
Total per sample: n = 47		Success: 100 %		
Total success: 100 %				

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Test	Sample	Group	N	Result	N <sub>rel</sub>
<b>(722) Antigen M</b>					
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 %					
<b>(723) Antigen N</b>					
E1 and S1 All results			>>> 47	Positive	100 %
_____ Total per sample: n = 47			Success: 100 %		
E2 and S2 All results			>>> 47	Positive	100 %
_____ Total per sample: n = 47			Success: 100 %		
Total success: 100 %					
<b>(724) Antigen S</b>					
E1 and S1 All results			>>> 50	Negative	100 %
_____ Total per sample: n = 50			Success: 100 %		
E2 and S2 All results			>>> 50	Positive	100 %
_____ Total per sample: n = 50			Success: 100 %		
Total success: 100 %					
<b>(725) Antigen s</b>					
E1 and S1 All results			>>> 51	Positive	100 %
_____ Total per sample: n = 51			Success: 100 %		
E2 and S2 All results			>>> 51	Negative	100 %
_____ Total per sample: n = 51			Success: 100 %		
Total success: 100 %					
<b>(726) Antigen P1</b>					
E1 and S1 All results			>>> 36	Negative	100 %
_____ Total per sample: n = 36			Success: 100 %		
E2 and S2 All results			>>> 36	Positive	100 %
_____ Total per sample: n = 36			Success: 100 %		
Total success: 100 %					
<b>(727) Antigen Fya</b>					
E1 and S1 All results			>>> 53	Negative	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 %					
<b>(728) Antigen Fyb</b>					
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 %					
<b>(729) Antigen Jka</b>					
E1 and S1 All results			>>> 51	Positive	100 %
_____ Total per sample: n = 51			Success: 100 %		
E2 and S2 All results			>>> 51	Negative	100 %
_____ Total per sample: n = 51			Success: 100 %		
Total success: 100 %					
<b>(730) Antigen Jkb</b>					
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 %					
<b>(731) Antigen Lua</b>					
E1 and S1 All results			>>> 31	Negative	100 %
_____ Total per sample: n = 31			Success: 100 %		
E2 and S2 All results			>>> 31	Negative	100 %
_____ Total per sample: n = 31			Success: 100 %		
Total success: 100 %					
<b>(732) Antigen Lub</b>					
E1 and S1 All results			>>> 32	Positive	100 %
_____ Total per sample: n = 32			Success: 100 %		
E2 and S2 All results			>>> 31	Negative	3,1 %
_____ Total per sample: n = 32			Success: 97 %	Positive	97 %

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Test		N	Result	N <sub>rel</sub>
Sample	Group			
Total success: 97 %				
<b>(733) Antigen Lea</b>				
E1 and S1 All results		>>> 40	Negative	100 %
Total per sample: n = 40		Success: 100 %		
E2 and S2 All results		>>> 40	Negative	100 %
Total per sample: n = 40		Success: 100 %		
Total success: 100 %				
<b>(734) Antigen Leb</b>				
E1 and S1 All results		>>> 40	Positive	100 %
Total per sample: n = 40		Success: 100 %		
E2 and S2 All results		>>> 40	Positive	100 %
Total per sample: n = 40		Success: 100 %		
Total success: 100 %				
<b>(737) Direct Coombs (antiglobulin) test</b>				
E1 and S1 All results		>>> 151	Negative	100 %
Total per sample: n = 151		Success: 100 %		
E2 and S2 All results		>>> 151	Negative	100 %
Total per sample: n = 151		Success: 100 %		
Total success: 100 %				
<b>(741) Antibody screening (IAT, blood donor)</b>				
E1 and S1 All results		4	Negative	4,0 %
Total per sample: n = 101		Success: 96 %	97	Positive
E2 and S2 All results		>>> 101	Positive	100 %
Total per sample: n = 101		Success: 100 %		
Total success: 96 %				
<b>(743) Antibody screening (IAT, recipient)</b>				
E1 and S1 All results		>>> 165	Positive	100 %
Total per sample: n = 165		Success: 100 %		
E2 and S2 All results		>>> 165	Positive	100 %
Total per sample: n = 165		Success: 100 %		
Total success: 100 %				
<b>(745) Antibody screening (IAT, pregnant)</b>				
E1 and S1 All results		>>> 138	Positive	100 %
Total per sample: n = 138		Success: 100 %		
E2 and S2 All results		>>> 138	Positive	100 %
Total per sample: n = 138		Success: 100 %		
Total success: 100 %				
<b>(747) Antibody screening (enzyme test)</b>				
E1 and S1 All results		>>> 108	Negative	96 %
Total per sample: n = 112		Success: 96 %	4	Positive
E2 and S2 All results		>>> 84	Negative	75 %
Total per sample: n = 112		Success: 100 %	> 28	Positive
Total success: 96 %				
<b>(750) Antibody identification</b>				
E1 and S1 All results		>>> 52	anti-Fya	100 %
Total per sample: n = 52		Success: 100 %		
E2 and S2 All results		1	anti-Lub	1,9 %
Total per sample: n = 52		Success: 92 %	> 17	anti-s
			1	anti-s; anti-E
			1	anti-s; anti-Jka
			1	anti-s; anti-K; anti-Lea
Total per sample: n = 52		Success: 92 %	>>> 31	anti-s; anti-M
Total success: 92 %				
<b>(752) Antibody titre, Sample 1: 1st antibody</b>				
E1 and S1 All results		± 2	titre 1	4,4 %
Total per sample: n = 45		Success (only evaluated results): evaluation	± 30	titre 2
			± 13	titre 4
Total success: 96 %				
<b>(756) Antibody titre, Sample 2: 1st antibody</b>				
E2 and S2 All results		± 10	titre 256	23 %
Total per sample: n = 45		Success (only evaluated results): evaluation	± 3	titre 512
			± 1	titre 1000
			± 2	titre 16
Total success: 96 %				

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Test		N	Result	N <sub>rel</sub>
Sample	Group			
E2 and S2	All results	± 4	titre 32	9,3 %
		± 7	titre 64	16 %
		± 16	titre 128	37 %
Total per sample: n = 43		Success (only evaluated results): evaluation		

**(757) Antibody titre, Sample 2: 2nd antibody**

E2 and S2	All results	± 5	titre 1	20 %
		± 4	titre 2	16 %
		± 16	titre 4	64 %
Total per sample: n = 25		Success (only evaluated results): evaluation		

**Set 3****(760) Crossmatch**

S1	All results	13	Crossmatch not successful	9,2 %
		>>> 128	Crossmatch successful	91 %
Total per sample: n = 141		Success: 91 %		
S2	All results	1	Crossmatch not successful	0,71 %
		>>> 140	Crossmatch successful	99 %
Total per sample: n = 141		Success: 99 %		
Total success: 90 %				

**(761) Crossmatch (segment K1)**

S1	All results	1	Negative test	0,71 %
		>>> 140	Positive test	99 %
Total per sample: n = 141		Success: 99 %		
S2	All results	1	Negative test	0,71 %
		>>> 140	Positive test	99 %
Total per sample: n = 141		Success: 99 %		
Total success: 99 %				

**(762) Serve transfusion product (segment K1)**

S1	All results	± 139	Impossible, risk of haemolysis	99 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,4 %
		Success (only evaluated results): evaluation		
Total per sample: n = 141		Success: 99 %		
S2	All results	± 132	Impossible, risk of haemolysis	94 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,4 %
		± 7	Only if more suitable products are not available	5,0 %
Total per sample: n = 141		Success (only evaluated results): evaluation		

**(764) Crossmatch (segment K2)**

S1	All results	13	Negative test	9,2 %
		>>> 128	Positive test	91 %
Total per sample: n = 141		Success: 91 %		
S2	All results	>>> 141	Positive test	100 %
Total per sample: n = 141		Success: 100 %		
Total success: 91 %				

**(765) Serve transfusion product (segment K2)**

S1	All results	± 131	Impossible, risk of haemolysis	93 %
		± 8	Decision depends on results of other tests not performed in our laboratory	5,7 %
		± 1	Only if more suitable products are not available	0,71 %
		± 1	Possible	0,71 %
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		