

## EQA round: IH1/18 - 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>
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**Set of samples 1 and 2****(700) AB0 blood group**

E1 and S1 All results	>>>	208	Blood group: B	100 %
----- Total per sample: n = 208	-----	Success: 100 %	-----	-----
E2 and S2 All results	>>>	208	Blood group: 0	100 %
----- Total per sample: n = 208	-----	Success: 100 %	-----	-----
Total success: 100 %				

**(705) Rh D antigen (blood-donor)**

E1 and S1 All results	>>>	136	Positive (RhD+)	100 %
----- Total per sample: n = 136	-----	Success: 100 %	-----	-----
E2 and S2 All results	>>>	136	Positive (RhD+)	100 %
----- Total per sample: n = 136	-----	Success: 100 %	-----	-----
Total success: 100 %				

**(709) Rh D antigen (recipient)**

E1 and S1 All results	>>>	197	Positive (RhD+)	100 %
----- Total per sample: n = 197	-----	Success: 100 %	-----	-----
E2 and S2 All results	>>>	197	Positive (RhD+)	100 %
----- Total per sample: n = 197	-----	Success: 100 %	-----	-----
Total success: 100 %				

**(715) Antigen C**

E1 and S1 All results	>>>	98	Positive	100 %
----- Total per sample: n = 98	-----	Success: 100 %	-----	-----
E2 and S2 All results	>>>	98	Positive	100 %
----- Total per sample: n = 98	-----	Success: 100 %	-----	-----
Total success: 100 %				

**(716) Antigen c**

E1 and S1 All results	>>>	98	Negative	100 %
----- Total per sample: n = 98	-----	Success: 100 %	-----	-----
E2 and S2 All results	>>>	98	Positive	100 %
----- Total per sample: n = 98	-----	Success: 100 %	-----	-----
Total success: 100 %				

**(717) Antigen Cw**

E1 and S1 All results	>>>	74	Negative	100 %
----- Total per sample: n = 74	-----	Success: 100 %	-----	-----
E2 and S2 All results	>>>	74	Negative	100 %
----- Total per sample: n = 74	-----	Success: 100 %	-----	-----
Total success: 100 %				

**(718) Antigen E**

E1 and S1 All results	>>>	98	Negative	100 %
----- Total per sample: n = 98	-----	Success: 100 %	-----	-----
E2 and S2 All results	>>>	98	Negative	100 %
----- Total per sample: n = 98	-----	Success: 100 %	-----	-----
Total success: 100 %				

**(719) Antigen e**

E1 and S1 All results	>>>	98	Positive	100 %
----- Total per sample: n = 98	-----	Success: 100 %	-----	-----
E2 and S2 All results	>>>	98	Positive	100 %
----- Total per sample: n = 98	-----	Success: 100 %	-----	-----
Total success: 100 %				

**(720) Antigen K**

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 %				

**(721) Antigen k**

E1 and S1 All results	>>>	54	Positive	100 %
----- Total per sample: n = 54	-----	Success: 100 %	-----	-----
E2 and S2 All results	>>>	54	Positive	100 %
----- Total per sample: n = 54	-----	Success: 100 %	-----	-----
Total success: 100 %				

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Test		N	Result	N <sub>rel</sub>
Sample	Group			
<b>(722) Antigen M</b>				
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 %				
<b>(723) Antigen N</b>				
E1 and S1 All results		>>> 49	Positive	100 %
----- Total per sample: n = 49	----- Success: 100 %			
E2 and S2 All results		>>> 46	Negative	94 %
----- Total per sample: n = 49	----- Success: 94 %	3	Positive	6,1 %
Total success: 94 %				
<b>(724) Antigen S</b>				
E1 and S1 All results		1	Negative	2,0 %
----- Total per sample: n = 51	----- Success: 98 %	>>> 50	Positive	98 %
E2 and S2 All results		>>> 51	Positive	100 %
----- Total per sample: n = 51	----- Success: 100 %			
Total success: 98 %				
<b>(725) Antigen s</b>				
E1 and S1 All results		1	Negative	2,0 %
----- Total per sample: n = 51	----- Success: 98 %	>>> 50	Positive	98 %
E2 and S2 All results		>>> 51	Negative	100 %
----- Total per sample: n = 51	----- Success: 100 %			
Total success: 98 %				
<b>(726) Antigen P1</b>				
E1 and S1 All results		>>> 39	Positive	100 %
----- Total per sample: n = 39	----- Success: 100 %			
E2 and S2 All results		>>> 39	Positive	100 %
----- Total per sample: n = 39	----- Success: 100 %			
Total success: 100 %				
<b>(727) Antigen Fya</b>				
E1 and S1 All results		>>> 52	Positive	100 %
----- Total per sample: n = 52	----- Success: 100 %			
E2 and S2 All results		>>> 52	Negative	100 %
----- Total per sample: n = 52	----- Success: 100 %			
Total success: 100 %				
<b>(728) Antigen Fyb</b>				
E1 and S1 All results		1	Negative	1,9 %
----- Total per sample: n = 52	----- Success: 98 %	>>> 51	Positive	98 %
E2 and S2 All results		>>> 52	Positive	100 %
----- Total per sample: n = 52	----- Success: 100 %			
Total success: 98 %				
<b>(729) Antigen Jka</b>				
E1 and S1 All results		>>> 48	Positive	100 %
----- Total per sample: n = 48	----- Success: 100 %			
E2 and S2 All results		>>> 48	Positive	100 %
----- Total per sample: n = 48	----- Success: 100 %			
Total success: 100 %				
<b>(730) Antigen Jkb</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>(731) Antigen Lua</b>				
E1 and S1 All results		>>> 37	Negative	100 %
----- Total per sample: n = 37	----- Success: 100 %			
E2 and S2 All results		>>> 37	Positive	100 %
----- Total per sample: n = 37	----- Success: 100 %			
Total success: 100 %				
<b>(732) Antigen Lub</b>				
E1 and S1 All results		>>> 33	Positive	100 %
----- Total per sample: n = 33	----- Success: 100 %			

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## Test

Sample	Group	N	Result	N <sub>rel</sub>
E2 and S2 All results		>>> 33	Positive	100 %
-----	Total per sample: n = 33	-----	Success: 100 %	-----
Total success: 100 %				

## (733) Antigen Lea

E1 and S1 All results		>>> 42	Negative	100 %
-----	Total per sample: n = 42	-----	Success: 100 %	-----
E2 and S2 All results		>>> 42	Negative	100 %
-----	Total per sample: n = 42	-----	Success: 100 %	-----
Total success: 100 %				

## (734) Antigen Leb

E1 and S1 All results		>>> 39	Negative	95 %
-----	Total per sample: n = 41	-----	Success: 95 %	-----
		2	Positive	4,9 %
E2 and S2 All results		>>> 41	Positive	100 %
-----	Total per sample: n = 41	-----	Success: 100 %	-----
Total success: 95 %				

## (737) Direct Coombs (antiglobulin) test

E1 and S1 All results		>>> 157	Negative	99 %
-----	Total per sample: n = 159	-----	Success: 99 %	-----
		2	Positive	1,3 %
E2 and S2 All results		>>> 156	Negative	98 %
-----	Total per sample: n = 159	-----	Success: 98 %	-----
		3	Positive	1,9 %
Total success: 98 %				

## (741) Antibody screening (IAT, blood donor)

E1 and S1 All results		>>> 112	Positive	100 %
-----	Total per sample: n = 112	-----	Success: 100 %	-----
E2 and S2 All results		>>> 110	Positive	98 %
-----	Total per sample: n = 112	-----	Success: 98 %	-----
		2	Negative	1,8 %
Total success: 98 %				

## (743) Antibody screening (IAT, recipient)

E1 and S1 All results		>>> 177	Positive	100 %
-----	Total per sample: n = 177	-----	Success: 100 %	-----
E2 and S2 All results		>>> 176	Positive	99 %
-----	Total per sample: n = 177	-----	Success: 99 %	-----
		1	Negative	0,56 %
Total success: 99 %				

## (745) Antibody screening (IAT, pregnant)

E1 and S1 All results		>>> 147	Positive	100 %
-----	Total per sample: n = 147	-----	Success: 100 %	-----
E2 and S2 All results		>>> 147	Positive	100 %
-----	Total per sample: n = 147	-----	Success: 100 %	-----
Total success: 100 %				

## (747) Antibody screening (enzyme test)

E1 and S1 All results		>>> 124	Positive	98 %
-----	Total per sample: n = 126	-----	Success: 98 %	-----
		2	Negative	1,6 %
E2 and S2 All results		>>> 103	Negative	82 %
-----	Total per sample: n = 126	-----	Success: 100 %	-----
		> 23	Positive	18 %
Total success: 98 %				

## (750) Antibody identification

E1 and S1 All results		>>> 56	anti-K; anti-Lua	95 %
-----	Total per sample: n = 59	-----	Success: 95 %	-----
		2	anti-K	3,4 %
		1	anti-K; anti-Lua	1,7 %
E2 and S2 All results		>>> 59	anti-s	100 %
-----	Total per sample: n = 59	-----	Success: 100 %	-----
Total success: 95 %				

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

E1 and S1 All results		± 4	titre 256	8,5 %
		± 1	titre 2	2,1 %
		± 1	titre 4	2,1 %
		± 1	titre 8	2,1 %
		± 1	titre 32	2,1 %
		± 15	titre 64	32 %

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## Test

Sample	Group	N	Result	N <sub>rel</sub>
E1 and S1	All results	± 24	titre 128	51 %
Total per sample: n = 47		Success (only evaluated results): evaluation		

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

E1 and S1	All results	± 3	titre 0 (not measurable)	6,4 %
		± 13	titre 1	28 %
		± 20	titre 2	43 %
		± 6	titre 4	13 %
		± 2	titre 8	4,3 %
		± 2	titre 64	4,3 %
		± 1	titre 128	2,1 %
Total per sample: n = 47		Success (only evaluated results): evaluation		

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

E2 and S2	All results	± 1	titre 0 (not measurable)	1,9 %
		± 3	titre 1	5,8 %
		± 18	titre 2	35 %
		± 28	titre 4	54 %
		± 2	titre 8	3,8 %
Total per sample: n = 52		Success (only evaluated results): evaluation		

## Set of samples 3

## (760) Crossmatch

S1	All results	1	Crossmatch not successful	0,69 %
		>>> 144	Crossmatch successful	99 %
Total per sample: n = 145		Success: 99 %		
S2	All results	1	Crossmatch not successful	0,69 %
		>>> 144	Crossmatch successful	99 %
Total per sample: n = 145		Success: 99 %		
Total success: 99 %				

## (761) Crossmatch (segment K1)

S1	All results	> 102	Negative test	70 %
		>>> 43	Positive test	30 %
Total per sample: n = 145		Success: 100 %		
S2	All results	>>> 144	Negative test	99 %
		1	Positive test	0,69 %
Total per sample: n = 145		Success: 99 %		
Total success: 99 %				

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

S1	All results	± 65	Impossible, risk of haemolysis	45 %
		± 56	Decision depends on results of other tests not performed in our laboratory	39 %
		± 15	Only if more suitable products are not available	10 %
		± 9	Possible	6,2 %
Total per sample: n = 145		Success (only evaluated results): evaluation		
S2	All results	± 2	Impossible, risk of haemolysis	1,4 %
		± 75	Decision depends on results of other tests not performed in our laboratory	52 %
		± 6	Only if more suitable products are not available	4,1 %
		± 62	Possible	43 %
Total per sample: n = 145		Success (only evaluated results): evaluation		

## (764) Crossmatch (segment K2)

S1	All results	>>> 144	Negative test	99 %
		1	Positive test	0,69 %
Total per sample: n = 145		Success: 99 %		
S2	All results	1	Negative test	0,69 %
		>>> 144	Positive test	99 %
Total per sample: n = 145		Success: 99 %		
Total success: 99 %				

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

S1	All results	± 2	Impossible, risk of haemolysis	1,4 %
		± 74	Decision depends on results of other tests not performed in our laboratory	51 %
		± 53	Only if more suitable products are not available	37 %
		± 16	Possible	11 %
Total per sample: n = 145		Success (only evaluated results): evaluation		
S2	All results	± 143	Impossible, risk of haemolysis	99 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,4 %
Total per sample: n = 145		Success (only evaluated results): evaluation		

