

## EQA round: IH4/17 - 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 S1All results	>>>	142	Blood group: 0	100 %
_____ Total per sample: n = 142	-----	Success: 100 %	-----	
E2 and S2All results	>>>	142	Blood group: B	100 %
_____ Total per sample: n = 142	-----	Success: 100 %	-----	
Total success: 100 %				

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

E1 and S1All results		23	Negative (RhD-)	24 %
	>	7	Positive (RhD+)	7,4 %
	>>>	65	w/v (RhD weak/variant)	68 %
_____ Total per sample: n = 95	-----	Success: 76 %	-----	
E2 and S2All results	>>>	95	Positive (RhD+)	100 %
_____ Total per sample: n = 95	-----	Success: 100 %	-----	
Total success: 76 %				

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

E1 and S1All results	>>>	97	Negative (RhD-)	73 %
	>>>	35	w/v (RhD weak/variant)	27 %
_____ Total per sample: n = 132	-----	Success: 100 %	-----	
E2 and S2All results	>>>	132	Positive (RhD+)	100 %
_____ Total per sample: n = 132	-----	Success: 100 %	-----	
Total success: 100 %				

**(715) Antigen C**

E1 and S1All results	>>>	61	Negative	98 %
		1	Positive	1,6 %
_____ Total per sample: n = 62	-----	Success: 98 %	-----	
E2 and S2All results	>>>	62	Negative	100 %
_____ Total per sample: n = 62	-----	Success: 100 %	-----	
Total success: 98 %				

**(716) Antigen c**

E1 and S1All results		1	Negative	1,6 %
	>>>	61	Positive	98 %
_____ Total per sample: n = 62	-----	Success: 98 %	-----	
E2 and S2All results	>>>	62	Positive	100 %
_____ Total per sample: n = 62	-----	Success: 100 %	-----	
Total success: 98 %				

**(717) Antigen Cw**

E1 and S1All results	>>>	49	Negative	100 %
_____ Total per sample: n = 49	-----	Success: 100 %	-----	
E2 and S2All results	>>>	49	Negative	100 %
_____ Total per sample: n = 49	-----	Success: 100 %	-----	
Total success: 100 %				

**(718) Antigen E**

E1 and S1All results	>>>	62	Positive	100 %
_____ Total per sample: n = 62	-----	Success: 100 %	-----	
E2 and S2All results	>>>	62	Positive	100 %
_____ Total per sample: n = 62	-----	Success: 100 %	-----	
Total success: 100 %				

**(719) Antigen e**

E1 and S1All results		1	Negative	1,6 %
	>>>	61	Positive	98 %
_____ Total per sample: n = 62	-----	Success: 98 %	-----	
E2 and S2All results	>>>	61	Negative	98 %
		1	Positive	1,6 %
_____ Total per sample: n = 62	-----	Success: 98 %	-----	
Total success: 97 %				

**(720) Antigen K**

E1 and S1All results	>>>	67	Negative	100 %
_____ Total per sample: n = 67	-----	Success: 100 %	-----	
E2 and S2All results	>>>	67	Negative	100 %
_____ Total per sample: n = 67	-----	Success: 100 %	-----	
Total success: 100 %				

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Test		N	Result	N <sub>rel</sub>
Sample	Group			
<b>(721) Antigen k</b>				
E1 and S1 All results		>>> 41	Positive	100 %
----- Total per sample: n = 41	----- Success: 100 %			
E2 and S2 All results		>>> 41	Positive	100 %
----- Total per sample: n = 41	----- Success: 100 %			
Total success: 100 %				
<b>(722) Antigen M</b>				
E1 and S1 All results		>>> 35	Positive	100 %
----- Total per sample: n = 35	----- Success: 100 %			
E2 and S2 All results		>>> 35	Positive	100 %
----- Total per sample: n = 35	----- Success: 100 %			
Total success: 100 %				
<b>(723) Antigen N</b>				
E1 and S1 All results		>>> 32	Negative	97 %
		1	Positive	3,0 %
----- Total per sample: n = 33	----- Success: 97 %			
E2 and S2 All results		>>> 33	Negative	100 %
----- Total per sample: n = 33	----- Success: 100 %			
Total success: 97 %				
<b>(724) Antigen S</b>				
E1 and S1 All results		1	Negative	2,9 %
		>>> 34	Positive	97 %
----- Total per sample: n = 35	----- Success: 97 %			
E2 and S2 All results		>>> 35	Positive	100 %
----- Total per sample: n = 35	----- Success: 100 %			
Total success: 97 %				
<b>(725) Antigen s</b>				
E1 and S1 All results		>>> 34	Negative	97 %
		1	Positive	2,9 %
----- Total per sample: n = 35	----- Success: 97 %			
E2 and S2 All results		>>> 35	Positive	100 %
----- Total per sample: n = 35	----- Success: 100 %			
Total success: 97 %				
<b>(726) Antigen P1</b>				
E1 and S1 All results		1	Negative	3,7 %
		>>> 26	Positive	96 %
----- Total per sample: n = 27	----- Success: 96 %			
E2 and S2 All results		>>> 27	Positive	100 %
----- Total per sample: n = 27	----- Success: 100 %			
Total success: 96 %				
<b>(727) Antigen Fya</b>				
E1 and S1 All results		1	Negative	2,9 %
		>>> 33	Positive	97 %
----- Total per sample: n = 34	----- Success: 97 %			
E2 and S2 All results		>>> 34	Positive	100 %
----- Total per sample: n = 34	----- Success: 100 %			
Total success: 97 %				
<b>(728) Antigen Fyb</b>				
E1 and S1 All results		>>> 33	Negative	97 %
		1	Positive	2,9 %
----- Total per sample: n = 34	----- Success: 97 %			
E2 and S2 All results		>>> 34	Positive	100 %
----- Total per sample: n = 34	----- Success: 100 %			
Total success: 97 %				
<b>(729) Antigen Jka</b>				
E1 and S1 All results		>>> 35	Positive	100 %
----- Total per sample: n = 35	----- Success: 100 %			
E2 and S2 All results		>>> 35	Negative	100 %
----- Total per sample: n = 35	----- Success: 100 %			
Total success: 100 %				
<b>(730) Antigen Jkb</b>				
E1 and S1 All results		>>> 35	Negative	100 %
----- Total per sample: n = 35	----- Success: 100 %			
E2 and S2 All results		>>> 35	Positive	100 %
----- Total per sample: n = 35	----- Success: 100 %			
Total success: 100 %				

## EQA round: IH4/17 - Blood Group Serology

## Test

Sample	Group	N	Result	N <sub>rel</sub>
<b>(731) Antigen Lua</b>				
E1 and S1 All results		>>> 27	Negative	100 %
----- Total per sample: n = 27		----- Success: 100 %		
E2 and S2 All results		>>> 27	Negative	100 %
----- Total per sample: n = 27		----- Success: 100 %		
Total success: 100 %				
<b>(732) Antigen Lub</b>				
E1 and S1 All results		>>> 26	Positive	100 %
----- Total per sample: n = 26		----- Success: 100 %		
E2 and S2 All results		>>> 26	Positive	100 %
----- Total per sample: n = 26		----- Success: 100 %		
Total success: 100 %				
<b>(733) Antigen Lea</b>				
E1 and S1 All results		>>> 28	Negative	93 %
----- Total per sample: n = 30		----- Success: 93 %	2 Positive	6,7 %
E2 and S2 All results		>>> 30	Positive	100 %
----- Total per sample: n = 30		----- Success: 100 %		
Total success: 93 %				
<b>(734) Antigen Leb</b>				
E1 and S1 All results		>>> 29	Positive	97 %
----- Total per sample: n = 30		----- Success: 97 %	1 Negative	3,3 %
E2 and S2 All results		>>> 30	Negative	100 %
----- Total per sample: n = 30		----- Success: 100 %		
Total success: 97 %				
<b>(737) Direct Coombs (antiglobulin) test</b>				
E1 and S1 All results		>>> 118	Negative	99 %
----- Total per sample: n = 119		----- Success: 99 %	1 Positive	0,84 %
E2 and S2 All results		>>> 119	Negative	100 %
----- Total per sample: n = 119		----- Success: 100 %		
Total success: 99 %				
<b>(741) Antibody screening (IAT, blood donor)</b>				
E1 and S1 All results		>>> 84	Positive	100 %
----- Total per sample: n = 84		----- Success: 100 %		
E2 and S2 All results		>>> 84	Positive	100 %
----- Total per sample: n = 84		----- Success: 100 %		
Total success: 100 %				
<b>(743) Antibody screening (IAT, recipient)</b>				
E1 and S1 All results		>>> 126	Positive	100 %
----- Total per sample: n = 126		----- Success: 100 %		
E2 and S2 All results		>>> 126	Positive	100 %
----- Total per sample: n = 126		----- Success: 100 %		
Total success: 100 %				
<b>(745) Antibody screening (IAT, pregnant)</b>				
E1 and S1 All results		>>> 104	Positive	100 %
----- Total per sample: n = 104		----- Success: 100 %		
E2 and S2 All results		>>> 104	Positive	100 %
----- Total per sample: n = 104		----- Success: 100 %		
Total success: 100 %				
<b>(747) Antibody screening (enzyme test)</b>				
E1 and S1 All results		>>> 104	Positive	100 %
----- Total per sample: n = 104		----- Success: 100 %		
E2 and S2 All results		>>> 104	Positive	100 %
----- Total per sample: n = 104		----- Success: 100 %		
Total success: 100 %				
<b>(750) Antibody identification</b>				
E1 and S1 All results		>>> 42	anti-D	100 %
----- Total per sample: n = 42		----- Success: 100 %		
E2 and S2 All results		>>> 32	anti-C; anti-e	76 %
----- Total per sample: n = 42		----- Success: 98 %	1 Not specified	2,4 %
		>	1 anti-C; anti-e; anti-Cw	2,4 %
		>	8 anti-e	19 %
Total success: 98 %				

## Test

Sample	Group	N	Result	N <sub>rel</sub>
<b>(752) Antibody titre, Sample 1: 1st antibody</b>				
E1 and S1	All results	± 2	titre 16	5,9 %
		± 4	titre 32	12 %
		± 6	titre 64	18 %
		± 15	titre 128	44 %
		± 5	titre 256	15 %
		± 2	titre 512	5,9 %
Total per sample: n = 34		Success (only evaluated results): evaluation		

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

E2 and S2	All results	± 1	titre 0 (not measurable)	5,3 %
		± 1	titre 1	5,3 %
		± 1	titre 8	5,3 %
		± 3	titre 16	16 %
		± 4	titre 32	21 %
		± 3	titre 64	16 %
		± 5	titre 128	26 %
		± 1	titre 256	5,3 %
Total per sample: n = 19		Success (only evaluated results): evaluation		

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

E2 and S2	All results	± 6	titre 0 (not measurable)	19 %
		± 3	titre 1	9,4 %
		± 4	titre 2	13 %
		± 3	titre 4	9,4 %
		± 8	titre 8	25 %
		± 6	titre 16	19 %
		± 2	titre 32	6,3 %
Total per sample: n = 32		Success (only evaluated results): evaluation		

**Set of samples 3****(760) Crossmatch**

S1	All results	1	Crossmatch not successful	0,88 %
		>>> 113	Crossmatch successful	99 %
Total per sample: n = 114		Success: 99 %		
S2	All results	5	Crossmatch not successful	4,4 %
		>>> 109	Crossmatch successful	96 %
Total per sample: n = 114		Success: 96 %		
Total success: 96 %				

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

S1	All results	>>> 114	Positive test	100 %
Total per sample: n = 114		Success: 100 %		
S2	All results	5	Negative test	4,4 %
		>>> 109	Positive test	96 %
Total per sample: n = 114		Success: 96 %		
Total success: 96 %				

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

S1	All results	± 114	Impossible, risk of haemolysis	100 %
Total per sample: n = 114		Success (only evaluated results): evaluation		
S2	All results	± 109	Impossible, risk of haemolysis	96 %
		± 4	Decision depends on results of other tests not performed in our laboratory	3,5 %
		± 1	Possible	0,88 %
Total per sample: n = 114		Success (only evaluated results): evaluation		

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

S1	All results	>>> 113	Negative test	99 %
		1	Positive test	0,88 %
Total per sample: n = 114		Success: 99 %		
S2	All results	>>> 114	Positive test	100 %
Total per sample: n = 114		Success: 100 %		
Total success: 99 %				

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

S1	All results	± 2	Impossible, risk of haemolysis	1,8 %
		± 56	Decision depends on results of other tests not performed in our laboratory	49 %
		± 29	Only if more suitable products are not available	25 %
		± 27	Possible	24 %
Total per sample: n = 114		Success (only evaluated results): evaluation		
S2	All results	± 114	Impossible, risk of haemolysis	100 %
Total per sample: n = 114		Success (only evaluated results): evaluation		