

## EQA round: IH3/18 - Blood Group Serology

Key: &gt;&gt;&gt; ... marks correct (expected) result

&gt; ... 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 (1) Tube test	>>>	76	Blood group: B	41 %
(2) Microplate - aut.	>>>	15	Blood group: B	8,2 %
(3) Microplate - man.	>>>	6	Blood group: B	3,3 %
(4) Microplate reagent kit - aut.	>>>	4	Blood group: B	2,2 %
(5) Microplate reagent kit - man.	>>>	1	Blood group: B	0,54 %
(7) Column agglutination - automat		1	Not specified	0,54 %
	>>>	29	Blood group: B	16 %
(9) Column agglutination - manual		1	Blood group: 0	0,54 %
	>>>	48	Blood group: B	26 %
(10) Solid phase	>>>	3	Blood group: B	1,6 %
----- Total per sample: n = 184 ----- Success: 99 % -----				
E2 and S2 (1) Tube test	>>>	76	Blood group: 0	41 %
(2) Microplate - aut.	>>>	15	Blood group: 0	8,2 %
(3) Microplate - man.	>>>	6	Blood group: 0	3,3 %
(4) Microplate reagent kit - aut.	>>>	4	Blood group: 0	2,2 %
(5) Microplate reagent kit - man.	>>>	1	Blood group: 0	0,54 %
(7) Column agglutination - automat	>>>	30	Blood group: 0	16 %
(9) Column agglutination - manual	>>>	48	Blood group: 0	26 %
		1	Blood group: B	0,54 %
(10) Solid phase	>>>	3	Blood group: 0	1,6 %
----- Total per sample: n = 184 ----- Success: 99 % -----				

Total success: 99 %

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

E1 and S1 (0) Not specified	>>>	1	Negative (RhD-)	0,86 %
(1) Tube test	>>>	50	Negative (RhD-)	43 %
(2) Microplate - aut.	>>>	13	Negative (RhD-)	11 %
(3) Microplate - man.	>>>	3	Negative (RhD-)	2,6 %
(4) Microplate reagent kit - aut.	>>>	5	Negative (RhD-)	4,3 %
(7) Column agglutination - automat	>>>	15	Negative (RhD-)	13 %
(9) Column agglutination - manual	>>>	26	Negative (RhD-)	22 %
(10) Solid phase	>>>	3	Negative (RhD-)	2,6 %
----- Total per sample: n = 116 ----- Success: 100 % -----				
E2 and S2 (0) Not specified	>>>	1	Positive (RhD+)	0,86 %
(1) Tube test	>>>	49	Positive (RhD+)	42 %
		1	w/v (RhD weak/variant)	0,86 %
(2) Microplate - aut.	>>>	13	Positive (RhD+)	11 %
(3) Microplate - man.	>>>	3	Positive (RhD+)	2,6 %
(4) Microplate reagent kit - aut.	>>>	5	Positive (RhD+)	4,3 %
(7) Column agglutination - automat	>>>	15	Positive (RhD+)	13 %
(9) Column agglutination - manual	>>>	26	Positive (RhD+)	22 %
(10) Solid phase	>>>	3	Positive (RhD+)	2,6 %
----- Total per sample: n = 116 ----- Success: 99 % -----				

Total success: 99 %

## (709) Rh D antigen (recipient)

E1 and S1 (1) Tube test	>>>	80	Negative (RhD-)	45 %
(2) Microplate - aut.	>>>	11	Negative (RhD-)	6,3 %
(3) Microplate - man.	>>>	3	Negative (RhD-)	1,7 %
(4) Microplate reagent kit - aut.	>>>	3	Negative (RhD-)	1,7 %
(5) Microplate reagent kit - man.	>>>	1	Negative (RhD-)	0,57 %
(7) Column agglutination - automat	>>>	28	Negative (RhD-)	16 %
(9) Column agglutination - manual	>>>	46	Negative (RhD-)	26 %
		1	Positive (RhD+)	0,57 %
(10) Solid phase	>>>	3	Negative (RhD-)	1,7 %
----- Total per sample: n = 176 ----- Success: 99 % -----				
E2 and S2 (1) Tube test	>>>	1	Negative (RhD-)	0,57 %
	>>>	79	Positive (RhD+)	45 %
(2) Microplate - aut.	>>>	11	Positive (RhD+)	6,3 %
(3) Microplate - man.	>>>	3	Positive (RhD+)	1,7 %
(4) Microplate reagent kit - aut.	>>>	3	Positive (RhD+)	1,7 %
(5) Microplate reagent kit - man.	>>>	1	Positive (RhD+)	0,57 %
(7) Column agglutination - automat	>>>	28	Positive (RhD+)	16 %
(9) Column agglutination - manual	>>>	47	Positive (RhD+)	27 %
(10) Solid phase	>>>	3	Positive (RhD+)	1,7 %

## Test

Sample	Group	N	Result	N <sub>rel</sub>
Total per sample: n = 176		Success: 99 %		
Total success: 99 %				

**(715) Antigen C**

E1 and S1 (1)	Tube test	>>>	27	Negative	31 %
(2)	Microplate - aut.	>>>	8	Negative	9,2 %
(4)	Microplate reagent kit - aut.	>>>	1	Negative	1,1 %
(7)	Column agglutination - automat	>>>	6	Negative	6,9 %
(8)	Lateral diffusion	>>>	1	Negative	1,1 %
(9)	Column agglutination - manual	>>>	42	Negative	48 %
(10)	Solid phase	>>>	2	Negative	2,3 %
Total per sample: n = 87		Success: 100 %			

E2 and S2 (1)	Tube test	>>>	27	Positive	31 %
(2)	Microplate - aut.	>>>	8	Positive	9,2 %
(4)	Microplate reagent kit - aut.	>>>	1	Positive	1,1 %
(7)	Column agglutination - automat	>>>	6	Positive	6,9 %
(8)	Lateral diffusion	>>>	1	Positive	1,1 %
(9)	Column agglutination - manual	>>>	42	Positive	48 %
(10)	Solid phase	>>>	2	Positive	2,3 %
Total per sample: n = 87		Success: 100 %			

Total success: 100 %

**(716) Antigen c**

E1 and S1 (1)	Tube test	>>>	27	Positive	31 %
(2)	Microplate - aut.	>>>	8	Positive	9,2 %
(4)	Microplate reagent kit - aut.	>>>	1	Positive	1,1 %
(7)	Column agglutination - automat	>>>	6	Positive	6,9 %
(8)	Lateral diffusion	>>>	1	Positive	1,1 %
(9)	Column agglutination - manual	>>>	42	Positive	48 %
(10)	Solid phase	>>>	2	Positive	2,3 %
Total per sample: n = 87		Success: 100 %			

E2 and S2 (1)	Tube test	>>>	27	Positive	31 %
(2)	Microplate - aut.	>>>	8	Positive	9,2 %
(4)	Microplate reagent kit - aut.	>>>	1	Positive	1,1 %
(7)	Column agglutination - automat	>>>	6	Positive	6,9 %
(8)	Lateral diffusion	>>>	1	Positive	1,1 %
(9)	Column agglutination - manual	>>>	42	Positive	48 %
(10)	Solid phase	>>>	2	Positive	2,3 %
Total per sample: n = 87		Success: 100 %			

Total success: 100 %

**(717) Antigen Cw**

E1 and S1 (1)	Tube test	>>>	25	Negative	38 %
(2)	Microplate - aut.	>>>	6	Negative	9,1 %
(7)	Column agglutination - automat	>>>	5	Negative	7,6 %
(8)	Lateral diffusion	>>>	1	Negative	1,5 %
(9)	Column agglutination - manual	>>>	28	Negative	42 %
(10)	Solid phase	>>>	1	Negative	1,5 %
Total per sample: n = 66		Success: 100 %			

E2 and S2 (1)	Tube test	>>>	25	Negative	38 %
(2)	Microplate - aut.	>>>	6	Negative	9,1 %
(7)	Column agglutination - automat	>>>	5	Negative	7,6 %
(8)	Lateral diffusion	>>>	1	Negative	1,5 %
(9)	Column agglutination - manual	>>>	28	Negative	42 %
(10)	Solid phase	>>>	1	Negative	1,5 %
Total per sample: n = 66		Success: 100 %			

Total success: 100 %

**(718) Antigen E**

E1 and S1 (1)	Tube test	>>>	27	Negative	31 %
(2)	Microplate - aut.	>>>	8	Negative	9,2 %
(4)	Microplate reagent kit - aut.	>>>	1	Negative	1,1 %
(7)	Column agglutination - automat	>>>	6	Negative	6,9 %
(8)	Lateral diffusion	>>>	1	Negative	1,1 %
(9)	Column agglutination - manual	>>>	42	Negative	48 %
(10)	Solid phase	>>>	2	Negative	2,3 %
Total per sample: n = 87		Success: 100 %			

E2 and S2 (1)	Tube test	>>>	27	Negative	31 %
(2)	Microplate - aut.	>>>	8	Negative	9,2 %
(4)	Microplate reagent kit - aut.	>>>	1	Negative	1,1 %
(7)	Column agglutination - automat	>>>	6	Negative	6,9 %
(8)	Lateral diffusion	>>>	1	Negative	1,1 %

## Test

Sample	Group	N	Result	N <sub>rel</sub>
E2 and S2 (9)	Column agglutination - manual	>>> 42	Negative	48 %
	(10) Solid phase	>>> 2	Negative	2,3 %
Total per sample: n = 87		Success: 100 %		
Total success: 100 %				

**(719) Antigen e**

E1 and S1 (1)	Tube test	>>> 27	Positive	31 %	
	(2) Microplate - aut.	>>> 8	Positive	9,2 %	
	(4) Microplate reagent kit - aut.	>>> 1	Positive	1,1 %	
	(7) Column agglutination - automat	>>> 6	Positive	6,9 %	
	(8) Lateral diffusion	>>> 1	Positive	1,1 %	
	(9) Column agglutination - manual	>>> 42	Positive	48 %	
	(10) Solid phase	>>> 2	Positive	2,3 %	
	Total per sample: n = 87		Success: 100 %		
	E2 and S2 (1)	Tube test	>>> 1	Negative	1,1 %
		(2) Microplate - aut.	>>> 26	Positive	30 %
(4) Microplate reagent kit - aut.		>>> 8	Positive	9,2 %	
(7) Column agglutination - automat		>>> 1	Positive	1,1 %	
(8) Lateral diffusion		>>> 6	Positive	6,9 %	
(9) Column agglutination - manual		>>> 1	Positive	1,1 %	
(10) Solid phase		>>> 42	Positive	48 %	
Total per sample: n = 87		Success: 99 %			
Total success: 99 %					

**(720) Antigen K**

E1 and S1 (1)	Tube test	>>> 28	Negative	31 %	
	(2) Microplate - aut.	>>> 8	Negative	8,8 %	
	(4) Microplate reagent kit - aut.	>>> 1	Negative	1,1 %	
	(7) Column agglutination - automat	>>> 7	Negative	7,7 %	
	(8) Lateral diffusion	>>> 1	Negative	1,1 %	
	(9) Column agglutination - manual	>>> 44	Negative	48 %	
	(10) Solid phase	>>> 2	Negative	2,2 %	
	Total per sample: n = 91		Success: 100 %		
	E2 and S2 (1)	Tube test	>>> 28	Negative	31 %
		(2) Microplate - aut.	>>> 8	Negative	8,8 %
(4) Microplate reagent kit - aut.		>>> 1	Negative	1,1 %	
(7) Column agglutination - automat		>>> 7	Negative	7,7 %	
(8) Lateral diffusion		>>> 1	Negative	1,1 %	
(9) Column agglutination - manual		>>> 44	Negative	48 %	
(10) Solid phase		>>> 2	Negative	2,2 %	
Total per sample: n = 91		Success: 100 %			
Total success: 100 %					

**(721) Antigen k**

E1 and S1 (1)	Tube test	>>> 27	Positive	55 %
	(2) Microplate - aut.	>>> 1	Positive	2,0 %
	(9) Column agglutination - manual	>>> 16	Positive	33 %
	(10) Solid phase	>>> 5	Positive	10 %
Total per sample: n = 49		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 27	Positive	55 %
	(2) Microplate - aut.	>>> 1	Positive	2,0 %
	(9) Column agglutination - manual	>>> 16	Positive	33 %
	(10) Solid phase	>>> 5	Positive	10 %
Total per sample: n = 49		Success: 100 %		
Total success: 100 %				

**(722) Antigen M**

E1 and S1 (1)	Tube test	>>> 27	Negative	55 %
	(2) Microplate - aut.	>>> 2	Negative	4,1 %
	(7) Column agglutination - automat	>>> 1	Negative	2,0 %
	(9) Column agglutination - manual	>>> 19	Negative	39 %
Total per sample: n = 49		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 1	Not specified	2,0 %
	(2) Microplate - aut.	>>> 26	Negative	53 %
	(7) Column agglutination - automat	>>> 2	Negative	4,1 %
	(9) Column agglutination - manual	>>> 1	Negative	2,0 %
	(10) Solid phase	>>> 19	Negative	39 %
Total per sample: n = 49		Success: 98 %		
Total success: 98 %				

## EQA round: IH3/18 - Blood Group Serology

Dead line: 20.09.2018

## Test

Sample	Group	N	Result	N <sub>rel</sub>
<b>(723) Antigen N</b>				
E1 and S1 (1)	Tube test	>>> 26	Positive	57 %
	(2) Microplate - aut.	>>> 1	Positive	2,2 %
	(7) Column agglutination - automat	>>> 1	Positive	2,2 %
	(9) Column agglutination - manual	>>> 18	Positive	39 %
----- Total per sample: n = 46 -----		Success: 100 %		
E2 and S2 (1)	Tube test	1	Not specified	2,2 %
	(2) Microplate - aut.	>>> 25	Positive	54 %
	(7) Column agglutination - automat	>>> 1	Positive	2,2 %
	(9) Column agglutination - manual	>>> 18	Positive	39 %
----- Total per sample: n = 46 -----		Success: 98 %		
Total success: 98 %				
<b>(724) Antigen S</b>				
E1 and S1 (1)	Tube test	>>> 22	Negative	46 %
	(7) Column agglutination - automat	>>> 1	Negative	2,1 %
	(9) Column agglutination - manual	>>> 22	Negative	46 %
	(10) Solid phase	>>> 3	Negative	6,3 %
----- Total per sample: n = 48 -----		Success: 100 %		
E2 and S2 (1)	Tube test	1	Not specified	2,1 %
	(7) Column agglutination - automat	>>> 21	Negative	44 %
	(9) Column agglutination - manual	>>> 1	Negative	2,1 %
	(10) Solid phase	>>> 22	Negative	46 %
----- Total per sample: n = 48 -----		Success: 98 %		
Total success: 98 %				
<b>(725) Antigen s</b>				
E1 and S1 (1)	Tube test	>>> 20	Positive	43 %
	(7) Column agglutination - automat	>>> 1	Positive	2,2 %
	(9) Column agglutination - manual	>>> 22	Positive	48 %
	(10) Solid phase	>>> 3	Positive	6,5 %
----- Total per sample: n = 46 -----		Success: 100 %		
E2 and S2 (1)	Tube test	1	Not specified	2,2 %
	(7) Column agglutination - automat	>>> 19	Positive	41 %
	(9) Column agglutination - manual	>>> 1	Positive	2,2 %
	(10) Solid phase	>>> 22	Positive	48 %
----- Total per sample: n = 46 -----		Success: 98 %		
Total success: 98 %				
<b>(726) Antigen P1</b>				
E1 and S1 (1)	Tube test	>>> 26	Negative	72 %
	(7) Column agglutination - automat	>>> 1	Negative	2,8 %
	(9) Column agglutination - manual	>>> 9	Negative	25 %
----- Total per sample: n = 36 -----		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 26	Positive	72 %
	(7) Column agglutination - automat	>>> 1	Positive	2,8 %
	(9) Column agglutination - manual	>>> 9	Positive	25 %
----- Total per sample: n = 36 -----		Success: 100 %		
Total success: 100 %				
<b>(727) Antigen Fya</b>				
E1 and S1 (1)	Tube test	>>> 22	Positive	43 %
	(7) Column agglutination - automat	>>> 1	Positive	2,0 %
	(9) Column agglutination - manual	>>> 1	Not specified	2,0 %
	(10) Solid phase	>>> 24	Positive	47 %
----- Total per sample: n = 51 -----		Success: 98 %		
E2 and S2 (1)	Tube test	>>> 22	Negative	43 %
	(7) Column agglutination - automat	>>> 1	Negative	2,0 %
	(9) Column agglutination - manual	>>> 25	Negative	49 %
	(10) Solid phase	>>> 3	Negative	5,9 %
----- Total per sample: n = 51 -----		Success: 100 %		
Total success: 98 %				
<b>(728) Antigen Fyb</b>				
E1 and S1 (1)	Tube test	>>> 20	Negative	41 %
	(7) Column agglutination - automat	>>> 1	Negative	2,0 %
	(9) Column agglutination - manual	>>> 1	Not specified	2,0 %
	(10) Solid phase	>>> 24	Negative	49 %
----- Total per sample: n = 51 -----		Success: 98 %		

## Test

Sample	Group	N	Result	N <sub>rel</sub>
Total per sample: n = 49		Success: 98 %		
E2 and S2 (1)	Tube test	>>> 20	Positive	41 %
	(7) Column agglutination - automat	>>> 1	Positive	2,0 %
	(9) Column agglutination - manual	>>> 25	Positive	51 %
	(10) Solid phase	>>> 3	Positive	6,1 %
Total per sample: n = 49		Success: 100 %		
Total success: 98 %				

**(729) Antigen Jka**

E1 and S1 (1)	Tube test	>>> 20	Negative	42 %
	(7) Column agglutination - automat	>>> 1	Negative	2,1 %
	(9) Column agglutination - manual	>>> 25	Negative	52 %
	(10) Solid phase	>>> 2	Negative	4,2 %
Total per sample: n = 48		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 20	Positive	42 %
	(7) Column agglutination - automat	>>> 1	Positive	2,1 %
	(9) Column agglutination - manual		Not specified	2,1 %
		>>> 24	Positive	50 %
	(10) Solid phase	>>> 2	Positive	4,2 %
Total per sample: n = 48		Success: 98 %		
Total success: 98 %				

**(730) Antigen Jkb**

E1 and S1 (1)	Tube test	>>> 18	Positive	39 %
	(7) Column agglutination - automat	>>> 1	Positive	2,2 %
	(9) Column agglutination - manual	>>> 25	Positive	54 %
	(10) Solid phase	>>> 2	Positive	4,3 %
Total per sample: n = 46		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 18	Negative	39 %
	(7) Column agglutination - automat	>>> 1	Negative	2,2 %
	(9) Column agglutination - manual		Not specified	2,2 %
		>>> 24	Negative	52 %
	(10) Solid phase	>>> 2	Negative	4,3 %
Total per sample: n = 46		Success: 98 %		
Total success: 98 %				

**(731) Antigen Lua**

E1 and S1 (1)	Tube test	>>> 20	Negative	57 %
	(7) Column agglutination - automat	>>> 1	Negative	2,9 %
	(9) Column agglutination - manual	>>> 14	Negative	40 %
Total per sample: n = 35		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 19	Negative	54 %
			Positive	2,9 %
	(7) Column agglutination - automat	>>> 1	Negative	2,9 %
	(9) Column agglutination - manual	>>> 14	Negative	40 %
Total per sample: n = 35		Success: 97 %		
Total success: 97 %				

**(732) Antigen Lub**

E1 and S1 (1)	Tube test		1 Negative	3,0 %
		>>> 18	Positive	55 %
	(7) Column agglutination - automat	>>> 1	Positive	3,0 %
	(9) Column agglutination - manual	>>> 13	Positive	39 %
Total per sample: n = 33		Success: 97 %		
E2 and S2 (1)	Tube test	>>> 19	Positive	58 %
	(7) Column agglutination - automat	>>> 1	Positive	3,0 %
	(9) Column agglutination - manual	>>> 13	Positive	39 %
Total per sample: n = 33		Success: 100 %		
Total success: 97 %				

**(733) Antigen Lea**

E1 and S1 (1)	Tube test	>>> 22	Negative	56 %
	(7) Column agglutination - automat	>>> 1	Negative	2,6 %
	(9) Column agglutination - manual	>>> 16	Negative	41 %
Total per sample: n = 39		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 22	Negative	56 %
	(7) Column agglutination - automat	>>> 1	Negative	2,6 %
	(9) Column agglutination - manual	>>> 16	Negative	41 %
Total per sample: n = 39		Success: 100 %		
Total success: 100 %				

**(734) Antigen Leb**

E1 and S1 (1)	Tube test	>>> 21	Positive	55 %
	(7) Column agglutination - automat	>>> 1	Positive	2,6 %

Test		N	Result	N <sub>rel</sub>
Sample	Group			
E1 and S1 (9)	Column agglutination - manual	>>> 16	Positive	42 %
Total per sample: n = 38		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 21	Positive	55 %
(7)	Column agglutination - automat	>>> 1	Positive	2,6 %
(9)	Column agglutination - manual	>>> 16	Positive	42 %
Total per sample: n = 38		Success: 100 %		
Total success: 100 %				
<b>(737) Direct Coombs (antiglobulin) test</b>				
E1 and S1 (1)	Tube test: IAT	>>> 3	Negative	2,1 %
(3)	Column agglut.: IAT - automat	>>> 13	Negative	9,3 %
(5)	Solid phase	>>> 1	Negative	0,71 %
(8)	Column agglut.: IAT - manual	>>> 121	Negative	86 %
(9)	Column agglut.: enzyme - manual	>>> 2	Negative	1,4 %
Total per sample: n = 140		Success: 100 %		
E2 and S2 (1)	Tube test: IAT	>>> 3	Negative	2,1 %
(3)	Column agglut.: IAT - automat	>>> 13	Negative	9,3 %
(5)	Solid phase	>>> 1	Negative	0,71 %
(8)	Column agglut.: IAT - manual	>>> 1	Not specified	0,71 %
(9)	Column agglut.: enzyme - manual	>>> 120	Negative	86 %
(9)	Column agglut.: enzyme - manual	>>> 2	Negative	1,4 %
Total per sample: n = 140		Success: 99 %		
Total success: 99 %				
<b>(741) Antibody screening (IAT, blood donor)</b>				
E1 and S1 (1)	Tube test: IAT	>>> 1	Positive	1,0 %
(3)	Column agglut.: IAT - automat	>>> 22	Positive	23 %
(5)	Solid phase	>>> 13	Positive	14 %
(6)	Microplate: IAT	>>> 1	Positive	1,0 %
(8)	Column agglut.: IAT - manual	>>> 4	Negative	4,2 %
		>>> 55	Positive	57 %
Total per sample: n = 96		Success: 96 %		
E2 and S2 (1)	Tube test: IAT	>>> 1	Positive	1,0 %
(3)	Column agglut.: IAT - automat	>>> 22	Positive	23 %
(5)	Solid phase	>>> 13	Positive	14 %
(6)	Microplate: IAT	>>> 1	Positive	1,0 %
(8)	Column agglut.: IAT - manual	>>> 59	Positive	61 %
Total per sample: n = 96		Success: 100 %		
Total success: 96 %				
<b>(743) Antibody screening (IAT, recipient)</b>				
E1 and S1 (3)	Column agglut.: IAT - automat	>>> 31	Positive	20 %
(4)	Column agglut.: enzyme - automat	>>> 1	Positive	0,64 %
(5)	Solid phase	>>> 5	Positive	3,2 %
(8)	Column agglut.: IAT - manual	>>> 119	Positive	76 %
(9)	Column agglut.: enzyme - manual	>>> 1	Positive	0,64 %
Total per sample: n = 157		Success: 100 %		
E2 and S2 (3)	Column agglut.: IAT - automat	>>> 31	Positive	20 %
(4)	Column agglut.: enzyme - automat	>>> 1	Positive	0,64 %
(5)	Solid phase	>>> 5	Positive	3,2 %
(8)	Column agglut.: IAT - manual	>>> 119	Positive	76 %
(9)	Column agglut.: enzyme - manual	>>> 1	Positive	0,64 %
Total per sample: n = 157		Success: 100 %		
Total success: 100 %				
<b>(745) Antibody screening (IAT, pregnant)</b>				
E1 and S1 (1)	Tube test: IAT	>>> 1	Positive	0,77 %
(3)	Column agglut.: IAT - automat	>>> 26	Positive	20 %
(4)	Column agglut.: enzyme - automat	>>> 2	Positive	1,5 %
(5)	Solid phase	>>> 7	Positive	5,4 %
(8)	Column agglut.: IAT - manual	>>> 94	Positive	72 %
Total per sample: n = 130		Success: 100 %		
E2 and S2 (1)	Tube test: IAT	>>> 1	Positive	0,77 %
(3)	Column agglut.: IAT - automat	>>> 26	Positive	20 %
(4)	Column agglut.: enzyme - automat	>>> 2	Positive	1,5 %
(5)	Solid phase	>>> 7	Positive	5,4 %
(8)	Column agglut.: IAT - manual	>>> 94	Positive	72 %
Total per sample: n = 130		Success: 100 %		
Total success: 100 %				
<b>(747) Antibody screening (enzyme test)</b>				
E1 and S1 (2)	Tube test: enzyme	2	Negative	1,9 %

## Test

Sample	Group	N	Result	N <sub>rel</sub>
E1 and S1 (2)	Tube test: enzyme	>>>	2 Positive	1,9 %
	(4) Column agglut.: enzyme - automat	>>>	22 Positive	20 %
	(8) Column agglut.: IAT - manual	>>>	5 Positive	4,6 %
	(9) Column agglut.: enzyme - manual	>>>	77 Positive	71 %
	Total per sample: n = 108		Success: 98 %	
E2 and S2 (2)	Tube test: enzyme	>>>	3 Negative	2,8 %
	(4) Column agglut.: enzyme - automat	>>>	22 Negative	20 %
	(8) Column agglut.: IAT - manual	>>>	4 Negative	3,7 %
	(9) Column agglut.: enzyme - manual	>>>	77 Negative	71 %
	Total per sample: n = 108		Success: 98 %	
Total success: 96 %				

## (750) Antibody identification

E1 and S1 (0) Not specified	>	3 anti-Jka	5,8 %
	>>>	47 anti-Jka; anti-M	90 %
	>	1 anti-Jka; anti-M; anti-S	1,9 %
		1 anti-M	1,9 %
Total per sample: n = 52		Success: 98 %	
E2 and S2 (0) Not specified	>>>	52 anti-Fya	100 %
Total per sample: n = 52		Success: 100 %	
Total success: 98 %			

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

E1 and S1 (2) Tube + heterozyg. expression	±	2 titre 2	5,0 %	
	±	1 titre 4	2,5 %	
	(3) Column agglut.+ homozyg. expres.	±	2 titre 2	5,0 %
		±	2 titre 4	5,0 %
	±	1 titre 16	2,5 %	
	±	2 titre 32	5,0 %	
	(4) Column agglut.+ heterozyg. expres.	±	2 titre 1	5,0 %
		±	5 titre 2	13 %
		±	4 titre 4	10 %
		±	8 titre 8	20 %
±	7 titre 16	18 %		
±	4 titre 32	10 %		
Total per sample: n = 40		Success (only evaluated results): evaluation		

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

E1 and S1 (1) Tube + homozyg. expression	±	1 titre 4	2,4 %	
	(2) Tube + heterozyg. expression	±	1 titre 0 (not measurable)	2,4 %
	(3) Column agglut.+ homozyg. expres.	±	1 titre 0 (not measurable)	2,4 %
		±	1 titre 2	2,4 %
	±	9 titre 4	21 %	
	±	3 titre 8	7,1 %	
	±	3 titre 16	7,1 %	
	±	1 titre 32	2,4 %	
	(4) Column agglut.+ heterozyg. expres.	±	3 titre 0 (not measurable)	7,1 %
		±	6 titre 1	14 %
±		6 titre 2	14 %	
±		3 titre 4	7,1 %	
±	2 titre 8	4,8 %		
±	2 titre 16	4,8 %		
Total per sample: n = 42		Success (only evaluated results): evaluation		

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

E2 and S2 (2) Tube + heterozyg. expression	±	2 titre 256	4,4 %	
	±	1 titre 512	2,2 %	
	±	1 titre 128	2,2 %	
	(3) Column agglut.+ homozyg. expres.	±	4 titre 256	8,9 %
		±	2 titre 512	4,4 %
	±	2 titre 64	4,4 %	
	(4) Column agglut.+ heterozyg. expres.	±	15 titre 256	33 %
		±	6 titre 512	13 %
		±	1 titre 1000	2,2 %
		±	1 titre 1	2,2 %
±	10 titre 128	22 %		
Total per sample: n = 45		Success (only evaluated results): evaluation		

## Test

Sample	Group	N	Result	N <sub>rel</sub>
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**Set of samples 3****(760) Crossmatch**

S1	All results	>>> 125	Crossmatch successful	100 %
----- Total per sample: n = 125 ----- Success: 100 % -----				
S2	All results	>>> 125	Crossmatch successful	100 %
----- Total per sample: n = 125 ----- Success: 100 % -----				
Total success: 100 %				

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

S1	(0) Not specified	>>> 1	Positive test	0,80 %
	(1) Tube test: IAT	>>> 1	Positive test	0,80 %
	(3) Column agglut.: IAT - automat	> 1	Negative test	0,80 %
		>>> 10	Positive test	8,0 %
	(4) Column agglut.: enzyme - automat	>>> 1	Positive test	0,80 %
	(5) Solid phase	>>> 3	Positive test	2,4 %
	(6) Microplate: IAT	>>> 1	Positive test	0,80 %
	(8) Column agglut.: IAT - manual	> 22	Negative test	18 %
		>>> 83	Positive test	66 %
	(9) Column agglut.: enzyme - manual	>>> 2	Positive test	1,6 %
----- Total per sample: n = 125 ----- Success: 100 % -----				
S2	(0) Not specified	>>> 1	Positive test	0,80 %
	(1) Tube test: IAT	>>> 1	Positive test	0,80 %
	(3) Column agglut.: IAT - automat	>>> 11	Positive test	8,8 %
	(4) Column agglut.: enzyme - automat	>>> 1	Positive test	0,80 %
	(5) Solid phase	>>> 3	Positive test	2,4 %
	(6) Microplate: IAT	>>> 1	Positive test	0,80 %
	(8) Column agglut.: IAT - manual	>>> 105	Positive test	84 %
	(9) Column agglut.: enzyme - manual	>>> 2	Positive test	1,6 %
	----- Total per sample: n = 125 ----- Success: 100 % -----			
Total success: 100 %				

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

S1	(0) Not specified	± 106	Impossible, risk of haemolysis	85 %
		± 14	Decision depends on results of other tests not performed in our laboratory	11 %
		± 4	Only if more suitable products are not available	3,2 %
		± 1	Possible	0,80 %
		----- Total per sample: n = 125 ----- Success (only evaluated results): evaluation-----		
S2	(0) Not specified	± 123	Impossible, risk of haemolysis	98 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,6 %
----- Total per sample: n = 125 ----- Success (only evaluated results): evaluation-----				

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

S1	(0) Not specified	>>> 1	Positive test	0,80 %	
	(1) Tube test: IAT	>>> 1	Positive test	0,80 %	
	(3) Column agglut.: IAT - automat	> 1	Negative test	0,80 %	
		>>> 10	Positive test	8,0 %	
	(4) Column agglut.: enzyme - automat	>>> 1	Positive test	0,80 %	
	(5) Solid phase	>>> 2	Positive test	1,6 %	
	(8) Column agglut.: IAT - manual	> 32	Negative test	26 %	
		>>> 75	Positive test	60 %	
	(9) Column agglut.: enzyme - manual	> 1	Negative test	0,80 %	
	>>> 1	Positive test	0,80 %		
----- Total per sample: n = 125 ----- Success: 100 % -----					
S2	(0) Not specified	>>> 1	Negative test	0,80 %	
	(1) Tube test: IAT	>>> 1	Negative test	0,80 %	
	(3) Column agglut.: IAT - automat	>>> 11	Negative test	8,8 %	
	(4) Column agglut.: enzyme - automat	>>> 1	Negative test	0,80 %	
	(5) Solid phase	>>> 2	Negative test	1,6 %	
	(8) Column agglut.: IAT - manual	>>> 107	Negative test	86 %	
	(9) Column agglut.: enzyme - manual	>>> 2	Negative test	1,6 %	
	----- Total per sample: n = 125 ----- Success: 100 % -----				
	Total success: 100 %				

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

S1	(0) Not specified	± 96	Impossible, risk of haemolysis	77 %
		± 24	Decision depends on results of other tests not performed in our laboratory	19 %
		± 5	Only if more suitable products are not available	4,0 %
----- Total per sample: n = 125 ----- Success (only evaluated results): evaluation-----				
S2	(0) Not specified	± 64	Decision depends on results of other tests not	51 %



**Summary statistics - qualitative results**

(Groups: measurement principle)

**EQA round: IH3/18 - Blood Group Serology**

Dead line: 20.09.2018

**Test**

Sample	Group	N	Result	N <sub>rel</sub>
S2			performed in our laboratory	
		± 4	Only if more suitable products are not available	3,2 %
		± 57	Possible	46 %
Total per sample: n = 125		Success (only evaluated results): evaluation		

st\_kl

End of report

Printed: 01.10.2018