

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 _{rel}
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Set of samples 1 and 2

(700) AB0 blood group

E1 and S1 (1) Tube test	>>>	68	Blood group: 0	48 %
(2) Microplate - aut.	>>>	8	Blood group: 0	5,6 %
(3) Microplate - man.	>>>	5	Blood group: 0	3,5 %
(4) Microplate reagent kit - aut.	>>>	9	Blood group: 0	6,3 %
(5) Microplate reagent kit - man.	>>>	4	Blood group: 0	2,8 %
(7) Column agglutination - automat	>>>	19	Blood group: 0	13 %
(9) Column agglutination - manual	>>>	28	Blood group: 0	20 %
(10) Solid phase	>>>	1	Blood group: 0	0,70 %

 Total per sample: n = 142 Success: 100 %

E2 and S2 (1) Tube test	>>>	68	Blood group: B	48 %
(2) Microplate - aut.	>>>	8	Blood group: B	5,6 %
(3) Microplate - man.	>>>	5	Blood group: B	3,5 %
(4) Microplate reagent kit - aut.	>>>	9	Blood group: B	6,3 %
(5) Microplate reagent kit - man.	>>>	4	Blood group: B	2,8 %
(7) Column agglutination - automat	>>>	19	Blood group: B	13 %
(9) Column agglutination - manual	>>>	28	Blood group: B	20 %
(10) Solid phase	>>>	1	Blood group: B	0,70 %

 Total per sample: n = 142 Success: 100 %

Total success: 100 %

(705) Rh D antigen (blood-donor)

E1 and S1 (0) Not specified		1	Negative (RhD-)	1,1 %
(1) Tube test		9	Negative (RhD-)	9,5 %
	>	3	Positive (RhD+)	3,2 %
	>>>	32	w/v (RhD weak/variant)	34 %
(2) Microplate - aut.	>>>	10	w/v (RhD weak/variant)	11 %
(3) Microplate - man.		2	Negative (RhD-)	2,1 %
	>>>	2	w/v (RhD weak/variant)	2,1 %
(4) Microplate reagent kit - aut.	>>>	8	w/v (RhD weak/variant)	8,4 %
(5) Microplate reagent kit - man.	>>>	1	w/v (RhD weak/variant)	1,1 %
(7) Column agglutination - automat		2	Negative (RhD-)	2,1 %
	>	1	Positive (RhD+)	1,1 %
	>>>	6	w/v (RhD weak/variant)	6,3 %
(9) Column agglutination - manual		9	Negative (RhD-)	9,5 %
	>	3	Positive (RhD+)	3,2 %
	>>>	5	w/v (RhD weak/variant)	5,3 %
(10) Solid phase	>>>	1	w/v (RhD weak/variant)	1,1 %

 Total per sample: n = 95 Success: 76 %

E2 and S2 (0) Not specified	>>>	1	Positive (RhD+)	1,1 %
(1) Tube test	>>>	44	Positive (RhD+)	46 %
(2) Microplate - aut.	>>>	10	Positive (RhD+)	11 %
(3) Microplate - man.	>>>	4	Positive (RhD+)	4,2 %
(4) Microplate reagent kit - aut.	>>>	8	Positive (RhD+)	8,4 %
(5) Microplate reagent kit - man.	>>>	1	Positive (RhD+)	1,1 %
(7) Column agglutination - automat	>>>	9	Positive (RhD+)	9,5 %
(9) Column agglutination - manual	>>>	17	Positive (RhD+)	18 %
(10) Solid phase	>>>	1	Positive (RhD+)	1,1 %

 Total per sample: n = 95 Success: 100 %

Total success: 76 %

(709) Rh D antigen (recipient)

E1 and S1 (1) Tube test	>>>	44	Negative (RhD-)	33 %
	>>>	20	w/v (RhD weak/variant)	15 %
(2) Microplate - aut.	>>>	5	Negative (RhD-)	3,8 %
	>>>	2	w/v (RhD weak/variant)	1,5 %
(3) Microplate - man.	>>>	4	Negative (RhD-)	3,0 %
	>>>	1	w/v (RhD weak/variant)	0,76 %
(4) Microplate reagent kit - aut.	>>>	4	Negative (RhD-)	3,0 %
	>>>	3	w/v (RhD weak/variant)	2,3 %
(5) Microplate reagent kit - man.	>>>	3	Negative (RhD-)	2,3 %
(7) Column agglutination - automat	>>>	12	Negative (RhD-)	9,1 %
	>>>	5	w/v (RhD weak/variant)	3,8 %
(9) Column agglutination - manual	>>>	25	Negative (RhD-)	19 %
	>>>	3	w/v (RhD weak/variant)	2,3 %
(10) Solid phase	>>>	1	w/v (RhD weak/variant)	0,76 %

Test

Sample	Group	N	Result	N _{rel}
Total per sample: n = 132		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 64	Positive (RhD+)	48 %
(2)	Microplate - aut.	>>> 7	Positive (RhD+)	5,3 %
(3)	Microplate - man.	>>> 5	Positive (RhD+)	3,8 %
(4)	Microplate reagent kit - aut.	>>> 7	Positive (RhD+)	5,3 %
(5)	Microplate reagent kit - man.	>>> 3	Positive (RhD+)	2,3 %
(7)	Column agglutination - automat	>>> 17	Positive (RhD+)	13 %
(9)	Column agglutination - manual	>>> 28	Positive (RhD+)	21 %
(10)	Solid phase	>>> 1	Positive (RhD+)	0,76 %
Total per sample: n = 132		Success: 100 %		
Total success: 100 %				

(715) Antigen C

E1 and S1 (1)	Tube test	>>> 23	Negative	37 %	
(2)	Microplate - aut.	>>> 4	Negative	6,5 %	
(4)	Microplate reagent kit - aut.	>>> 1	Negative	1,6 %	
(7)	Column agglutination - automat	>>> 7	Negative	11 %	
(8)	Lateral diffusion	>>> 1	Negative	1,6 %	
(9)	Column agglutination - manual	>>> 24	Negative	39 %	
			1	Positive	1,6 %
(10)	Solid phase	>>> 1	Negative	1,6 %	
Total per sample: n = 62		Success: 98 %			
E2 and S2 (1)	Tube test	>>> 23	Negative	37 %	
(2)	Microplate - aut.	>>> 4	Negative	6,5 %	
(4)	Microplate reagent kit - aut.	>>> 1	Negative	1,6 %	
(7)	Column agglutination - automat	>>> 7	Negative	11 %	
(8)	Lateral diffusion	>>> 1	Negative	1,6 %	
(9)	Column agglutination - manual	>>> 25	Negative	40 %	
(10)	Solid phase	>>> 1	Negative	1,6 %	
Total per sample: n = 62		Success: 100 %			
Total success: 98 %					

(716) Antigen c

E1 and S1 (1)	Tube test	>>> 23	Positive	37 %
(2)	Microplate - aut.	>>> 4	Positive	6,5 %
(4)	Microplate reagent kit - aut.	>>> 1	Positive	1,6 %
(7)	Column agglutination - automat	>>> 7	Positive	11 %
(8)	Lateral diffusion	>>> 1	Positive	1,6 %
(9)	Column agglutination - manual	>>> 1	Negative	1,6 %
		>>> 24	Positive	39 %
(10)	Solid phase	>>> 1	Positive	1,6 %
Total per sample: n = 62		Success: 98 %		
E2 and S2 (1)	Tube test	>>> 23	Positive	37 %
(2)	Microplate - aut.	>>> 4	Positive	6,5 %
(4)	Microplate reagent kit - aut.	>>> 1	Positive	1,6 %
(7)	Column agglutination - automat	>>> 7	Positive	11 %
(8)	Lateral diffusion	>>> 1	Positive	1,6 %
(9)	Column agglutination - manual	>>> 25	Positive	40 %
(10)	Solid phase	>>> 1	Positive	1,6 %
Total per sample: n = 62		Success: 100 %		
Total success: 98 %				

(717) Antigen Cw

E1 and S1 (1)	Tube test	>>> 21	Negative	43 %
(2)	Microplate - aut.	>>> 4	Negative	8,2 %
(7)	Column agglutination - automat	>>> 6	Negative	12 %
(8)	Lateral diffusion	>>> 1	Negative	2,0 %
(9)	Column agglutination - manual	>>> 16	Negative	33 %
(10)	Solid phase	>>> 1	Negative	2,0 %
Total per sample: n = 49		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 21	Negative	43 %
(2)	Microplate - aut.	>>> 4	Negative	8,2 %
(7)	Column agglutination - automat	>>> 6	Negative	12 %
(8)	Lateral diffusion	>>> 1	Negative	2,0 %
(9)	Column agglutination - manual	>>> 16	Negative	33 %
(10)	Solid phase	>>> 1	Negative	2,0 %
Total per sample: n = 49		Success: 100 %		
Total success: 100 %				

(718) Antigen E

E1 and S1 (1)	Tube test	>>> 23	Positive	37 %
(2)	Microplate - aut.	>>> 4	Positive	6,5 %

Test					
Sample	Group		N	Result	N _{rel}
E1 and S1	(4) Microplate reagent kit - aut.	>>>	1	Positive	1,6 %
	(7) Column agglutination - automat	>>>	7	Positive	11 %
	(8) Lateral diffusion	>>>	1	Positive	1,6 %
	(9) Column agglutination - manual	>>>	25	Positive	40 %
	(10) Solid phase	>>>	1	Positive	1,6 %
	Total per sample: n = 62		Success: 100 %	-	
E2 and S2	(1) Tube test	>>>	23	Positive	37 %
	(2) Microplate - aut.	>>>	4	Positive	6,5 %
	(4) Microplate reagent kit - aut.	>>>	1	Positive	1,6 %
	(7) Column agglutination - automat	>>>	7	Positive	11 %
	(8) Lateral diffusion	>>>	1	Positive	1,6 %
	(9) Column agglutination - manual	>>>	25	Positive	40 %
(10) Solid phase	>>>	1	Positive	1,6 %	
Total per sample: n = 62		Success: 100 %	-		
Total success: 100 %					

(719) Antigen e

E1 and S1	(1) Tube test	>>>	23	Positive	37 %
	(2) Microplate - aut.	>>>	4	Positive	6,5 %
	(4) Microplate reagent kit - aut.	>>>	1	Positive	1,6 %
	(7) Column agglutination - automat	>>>	7	Positive	11 %
	(8) Lateral diffusion	>>>	1	Positive	1,6 %
	(9) Column agglutination - manual	>>>	1	Negative	1,6 %
(10) Solid phase	>>>	24	Positive	39 %	
(10) Solid phase	>>>	1	Positive	1,6 %	
Total per sample: n = 62		Success: 98 %	-		
E2 and S2	(1) Tube test	>>>	23	Negative	37 %
	(2) Microplate - aut.	>>>	4	Negative	6,5 %
	(4) Microplate reagent kit - aut.	>>>	1	Negative	1,6 %
	(7) Column agglutination - automat	>>>	6	Negative	9,7 %
	(8) Lateral diffusion	>>>	1	Positive	1,6 %
	(9) Column agglutination - manual	>>>	1	Negative	1,6 %
(9) Column agglutination - manual	>>>	25	Negative	40 %	
(10) Solid phase	>>>	1	Negative	1,6 %	
Total per sample: n = 62		Success: 98 %	-		
Total success: 97 %					

(720) Antigen K

E1 and S1	(1) Tube test	>>>	24	Negative	36 %
	(2) Microplate - aut.	>>>	4	Negative	6,0 %
	(4) Microplate reagent kit - aut.	>>>	1	Negative	1,5 %
	(7) Column agglutination - automat	>>>	7	Negative	10 %
	(8) Lateral diffusion	>>>	1	Negative	1,5 %
	(9) Column agglutination - manual	>>>	29	Negative	43 %
(10) Solid phase	>>>	1	Negative	1,5 %	
Total per sample: n = 67		Success: 100 %	-		
E2 and S2	(1) Tube test	>>>	24	Negative	36 %
	(2) Microplate - aut.	>>>	4	Negative	6,0 %
	(4) Microplate reagent kit - aut.	>>>	1	Negative	1,5 %
	(7) Column agglutination - automat	>>>	7	Negative	10 %
	(8) Lateral diffusion	>>>	1	Negative	1,5 %
	(9) Column agglutination - manual	>>>	29	Negative	43 %
(10) Solid phase	>>>	1	Negative	1,5 %	
Total per sample: n = 67		Success: 100 %	-		
Total success: 100 %					

(721) Antigen k

E1 and S1	(1) Tube test	>>>	21	Positive	51 %
	(2) Microplate - aut.	>>>	1	Positive	2,4 %
	(7) Column agglutination - automat	>>>	1	Positive	2,4 %
	(9) Column agglutination - manual	>>>	16	Positive	39 %
	(10) Solid phase	>>>	2	Positive	4,9 %
Total per sample: n = 41		Success: 100 %	-		
E2 and S2	(1) Tube test	>>>	21	Positive	51 %
	(2) Microplate - aut.	>>>	1	Positive	2,4 %
	(7) Column agglutination - automat	>>>	1	Positive	2,4 %
	(9) Column agglutination - manual	>>>	16	Positive	39 %
	(10) Solid phase	>>>	2	Positive	4,9 %
Total per sample: n = 41		Success: 100 %	-		
Total success: 100 %					

Test		N	Result	N _{rel}
Sample	Group			
(722) Antigen M				
E1 and S1 (1)	Tube test	>>> 21	Positive	60 %
	(2) Microplate - aut.	>>> 1	Positive	2,9 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 12	Positive	34 %
Total per sample: n = 35		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 21	Positive	60 %
	(2) Microplate - aut.	>>> 1	Positive	2,9 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 12	Positive	34 %
Total per sample: n = 35		Success: 100 %		
Total success: 100 %				
(723) Antigen N				
E1 and S1 (1)	Tube test	>>> 18	Negative	55 %
		1	Positive	3,0 %
	(7) Column agglutination - automat	>>> 1	Negative	3,0 %
	(9) Column agglutination - manual	>>> 13	Negative	39 %
Total per sample: n = 33		Success: 97 %		
E2 and S2 (1)	Tube test	>>> 19	Negative	58 %
	(7) Column agglutination - automat	>>> 1	Negative	3,0 %
	(9) Column agglutination - manual	>>> 13	Negative	39 %
Total per sample: n = 33		Success: 100 %		
Total success: 97 %				
(724) Antigen S				
E1 and S1 (1)	Tube test	1	Negative	2,9 %
		>>> 18	Positive	51 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 13	Positive	37 %
	(10) Solid phase	>>> 2	Positive	5,7 %
Total per sample: n = 35		Success: 97 %		
E2 and S2 (1)	Tube test	>>> 19	Positive	54 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 13	Positive	37 %
	(10) Solid phase	>>> 2	Positive	5,7 %
Total per sample: n = 35		Success: 100 %		
Total success: 97 %				
(725) Antigen s				
E1 and S1 (1)	Tube test	>>> 17	Negative	49 %
		1	Positive	2,9 %
	(7) Column agglutination - automat	>>> 1	Negative	2,9 %
	(9) Column agglutination - manual	>>> 14	Negative	40 %
	(10) Solid phase	>>> 2	Negative	5,7 %
Total per sample: n = 35		Success: 97 %		
E2 and S2 (1)	Tube test	>>> 18	Positive	51 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 14	Positive	40 %
	(10) Solid phase	>>> 2	Positive	5,7 %
Total per sample: n = 35		Success: 100 %		
Total success: 97 %				
(726) Antigen P1				
E1 and S1 (1)	Tube test	1	Negative	3,7 %
		>>> 20	Positive	74 %
	(9) Column agglutination - manual	>>> 6	Positive	22 %
Total per sample: n = 27		Success: 96 %		
E2 and S2 (1)	Tube test	>>> 21	Positive	78 %
	(9) Column agglutination - manual	>>> 6	Positive	22 %
Total per sample: n = 27		Success: 100 %		
Total success: 96 %				
(727) Antigen Fya				
E1 and S1 (1)	Tube test	1	Negative	2,9 %
		>>> 16	Positive	47 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 14	Positive	41 %
	(10) Solid phase	>>> 2	Positive	5,9 %
Total per sample: n = 34		Success: 97 %		
E2 and S2 (1)	Tube test	>>> 17	Positive	50 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 14	Positive	41 %

EQA round: IH4/17 - Blood Group Serology

Dead line: 23.11.2017

Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (10)	Solid phase	>>> 2	Positive	5,9 %
Total per sample: n = 34		Success: 100 %		
Total success: 97 %				
(728) Antigen Fyb				
E1 and S1 (1)	Tube test	>>> 16	Negative	47 %
		1	Positive	2,9 %
	(7) Column agglutination - automat	>>> 1	Negative	2,9 %
	(9) Column agglutination - manual	>>> 14	Negative	41 %
	(10) Solid phase	>>> 2	Negative	5,9 %
Total per sample: n = 34		Success: 97 %		
E2 and S2 (1)	Tube test	>>> 17	Positive	50 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 14	Positive	41 %
	(10) Solid phase	>>> 2	Positive	5,9 %
Total per sample: n = 34		Success: 100 %		
Total success: 97 %				
(729) Antigen Jka				
E1 and S1 (1)	Tube test	>>> 19	Positive	54 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 13	Positive	37 %
	(10) Solid phase	>>> 2	Positive	5,7 %
Total per sample: n = 35		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 19	Negative	54 %
	(7) Column agglutination - automat	>>> 1	Negative	2,9 %
	(9) Column agglutination - manual	>>> 13	Negative	37 %
	(10) Solid phase	>>> 2	Negative	5,7 %
Total per sample: n = 35		Success: 100 %		
Total success: 100 %				
(730) Antigen Jkb				
E1 and S1 (1)	Tube test	>>> 20	Negative	57 %
	(7) Column agglutination - automat	>>> 1	Negative	2,9 %
	(9) Column agglutination - manual	>>> 13	Negative	37 %
	(10) Solid phase	>>> 1	Negative	2,9 %
Total per sample: n = 35		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 20	Positive	57 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 13	Positive	37 %
	(10) Solid phase	>>> 1	Positive	2,9 %
Total per sample: n = 35		Success: 100 %		
Total success: 100 %				
(731) Antigen Lua				
E1 and S1 (1)	Tube test	>>> 15	Negative	56 %
	(9) Column agglutination - manual	>>> 12	Negative	44 %
Total per sample: n = 27		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 15	Negative	56 %
	(9) Column agglutination - manual	>>> 12	Negative	44 %
Total per sample: n = 27		Success: 100 %		
Total success: 100 %				
(732) Antigen Lub				
E1 and S1 (1)	Tube test	>>> 15	Positive	58 %
	(9) Column agglutination - manual	>>> 11	Positive	42 %
Total per sample: n = 26		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 15	Positive	58 %
	(9) Column agglutination - manual	>>> 11	Positive	42 %
Total per sample: n = 26		Success: 100 %		
Total success: 100 %				
(733) Antigen Lea				
E1 and S1 (1)	Tube test	>>> 19	Negative	63 %
		1	Positive	3,3 %
	(9) Column agglutination - manual	>>> 9	Negative	30 %
		1	Positive	3,3 %
Total per sample: n = 30		Success: 93 %		
E2 and S2 (1)	Tube test	>>> 20	Positive	67 %
	(9) Column agglutination - manual	>>> 10	Positive	33 %
Total per sample: n = 30		Success: 100 %		
Total success: 93 %				

Test

Sample	Group	N	Result	N _{rel}
(734) Antigen Leb				
E1 and S1 (1)	Tube test	1	Negative	3,3 %
		>>> 19	Positive	63 %
	(9) Column agglutination - manual	>>> 10	Positive	33 %
----- Total per sample: n = 30 ----- Success: 97 % -----				
E2 and S2 (1)	Tube test	>>> 20	Negative	67 %
	(9) Column agglutination - manual	>>> 10	Negative	33 %
----- Total per sample: n = 30 ----- Success: 100 % -----				
Total success: 97 %				
(737) Direct Coombs (antiglobulin) test				
E1 and S1 (1)	Tube test: IAT	>>> 7	Negative	5,9 %
	(3) Column agglut.: IAT - automat	>>> 16	Negative	13 %
	(5) Solid phase	>>> 1	Negative	0,84 %
	(6) Microplate: IAT	>>> 1	Negative	0,84 %
	(8) Column agglut.: IAT - manual	>>> 92	Negative	77 %
		1	Positive	0,84 %
	(9) Column agglut.: enzyme - manual	>>> 1	Negative	0,84 %
----- Total per sample: n = 119 ----- Success: 99 % -----				
E2 and S2 (1)	Tube test: IAT	>>> 7	Negative	5,9 %
	(3) Column agglut.: IAT - automat	>>> 16	Negative	13 %
	(5) Solid phase	>>> 1	Negative	0,84 %
	(6) Microplate: IAT	>>> 1	Negative	0,84 %
	(8) Column agglut.: IAT - manual	>>> 93	Negative	78 %
	(9) Column agglut.: enzyme - manual	>>> 1	Negative	0,84 %
----- Total per sample: n = 119 ----- Success: 100 % -----				
Total success: 99 %				
(741) Antibody screening (IAT, blood donor)				
E1 and S1 (0)	Not specified	>>> 1	Positive	1,2 %
	(1) Tube test: IAT	>>> 2	Positive	2,4 %
	(2) Tube test: enzyme	>>> 1	Positive	1,2 %
	(3) Column agglut.: IAT - automat	>>> 18	Positive	21 %
	(4) Column agglut.: enzyme - automat	>>> 2	Positive	2,4 %
	(5) Solid phase	>>> 11	Positive	13 %
	(6) Microplate: IAT	>>> 1	Positive	1,2 %
	(8) Column agglut.: IAT - manual	>>> 48	Positive	57 %
----- Total per sample: n = 84 ----- Success: 100 % -----				
E2 and S2 (0)	Not specified	>>> 1	Positive	1,2 %
	(1) Tube test: IAT	>>> 2	Positive	2,4 %
	(2) Tube test: enzyme	>>> 1	Positive	1,2 %
	(3) Column agglut.: IAT - automat	>>> 18	Positive	21 %
	(4) Column agglut.: enzyme - automat	>>> 2	Positive	2,4 %
	(5) Solid phase	>>> 11	Positive	13 %
	(6) Microplate: IAT	>>> 1	Positive	1,2 %
	(8) Column agglut.: IAT - manual	>>> 48	Positive	57 %
----- Total per sample: n = 84 ----- Success: 100 % -----				
Total success: 100 %				
(743) Antibody screening (IAT, recipient)				
E1 and S1 (1)	Tube test: IAT	>>> 1	Positive	0,79 %
	(2) Tube test: enzyme	>>> 1	Positive	0,79 %
	(3) Column agglut.: IAT - automat	>>> 26	Positive	21 %
	(5) Solid phase	>>> 5	Positive	4,0 %
	(6) Microplate: IAT	>>> 1	Positive	0,79 %
	(8) Column agglut.: IAT - manual	>>> 91	Positive	72 %
	(9) Column agglut.: enzyme - manual	>>> 1	Positive	0,79 %
----- Total per sample: n = 126 ----- Success: 100 % -----				
E2 and S2 (1)	Tube test: IAT	>>> 1	Positive	0,79 %
	(2) Tube test: enzyme	>>> 1	Positive	0,79 %
	(3) Column agglut.: IAT - automat	>>> 26	Positive	21 %
	(5) Solid phase	>>> 5	Positive	4,0 %
	(6) Microplate: IAT	>>> 1	Positive	0,79 %
	(8) Column agglut.: IAT - manual	>>> 91	Positive	72 %
	(9) Column agglut.: enzyme - manual	>>> 1	Positive	0,79 %
----- Total per sample: n = 126 ----- Success: 100 % -----				
Total success: 100 %				
(745) Antibody screening (IAT, pregnant)				
E1 and S1 (1)	Tube test: IAT	>>> 2	Positive	1,9 %
	(2) Tube test: enzyme	>>> 1	Positive	0,96 %
	(3) Column agglut.: IAT - automat	>>> 23	Positive	22 %

EQA round: IH4/17 - Blood Group Serology

Test		N	Result	N _{rel}	
Sample	Group				
E1 and S1 (5)	Solid phase	>>>	5 Positive	4,8 %	
	(6) Microplate: IAT	>>>	1 Positive	0,96 %	
	(8) Column agglut.: IAT - manual	>>>	71 Positive	68 %	
	(9) Column agglut.: enzyme - manual	>>>	1 Positive	0,96 %	
	Total per sample: n = 104		Success: 100 %		
E2 and S2 (1)	Tube test: IAT	>>>	2 Positive	1,9 %	
	(2) Tube test: enzyme	>>>	1 Positive	0,96 %	
	(3) Column agglut.: IAT - automat	>>>	23 Positive	22 %	
	(5) Solid phase	>>>	5 Positive	4,8 %	
	(6) Microplate: IAT	>>>	1 Positive	0,96 %	
	(8) Column agglut.: IAT - manual	>>>	71 Positive	68 %	
	(9) Column agglut.: enzyme - manual	>>>	1 Positive	0,96 %	
	Total per sample: n = 104		Success: 100 %		
	Total success: 100 %				

(747) Antibody screening (enzyme test)

E1 and S1 (1)	Tube test: IAT	>>>	1 Positive	0,96 %	
	(2) Tube test: enzyme	>>>	1 Positive	0,96 %	
	(3) Column agglut.: IAT - automat	>>>	2 Positive	1,9 %	
	(4) Column agglut.: enzyme - automat	>>>	17 Positive	16 %	
	(7) Microplate: enzyme	>>>	1 Positive	0,96 %	
	(8) Column agglut.: IAT - manual	>>>	6 Positive	5,8 %	
	(9) Column agglut.: enzyme - manual	>>>	76 Positive	73 %	
	Total per sample: n = 104		Success: 100 %		
	E2 and S2 (1)	Tube test: IAT	>>>	1 Positive	0,96 %
(2) Tube test: enzyme		>>>	1 Positive	0,96 %	
(3) Column agglut.: IAT - automat		>>>	2 Positive	1,9 %	
(4) Column agglut.: enzyme - automat		>>>	17 Positive	16 %	
(7) Microplate: enzyme		>>>	1 Positive	0,96 %	
(8) Column agglut.: IAT - manual		>>>	6 Positive	5,8 %	
(9) Column agglut.: enzyme - manual		>>>	76 Positive	73 %	
Total per sample: n = 104		Success: 100 %			
Total success: 100 %					

(750) Antibody identification

E1 and S1 (0)	Not specified	>>>	42 anti-D	100 %
	Total per sample: n = 42		Success: 100 %	
E2 and S2 (0)	Not specified	>>>	1 Not specified	2,4 %
		>>>	32 anti-C; anti-e	76 %
		>	1 anti-C; anti-e; anti-Cw	2,4 %
		>	8 anti-e	19 %
	Total per sample: n = 42		Success: 98 %	
Total success: 98 %				

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

E1 and S1 (1)	Tube + homozyg. expression	±	1 titre 128	2,9 %
	(2) Tube + heterozyg. expression	±	1 titre 16	2,9 %
	(3) Column agglut.+ homozyg. expres.	±	1 titre 32	2,9 %
		±	1 titre 64	2,9 %
		±	13 titre 128	38 %
		±	2 titre 256	5,9 %
		±	1 titre 16	2,9 %
	(4) Column agglut.+ heterozyg. expres.	±	2 titre 32	5,9 %
		±	4 titre 64	12 %
		±	1 titre 128	2,9 %
		±	3 titre 256	8,8 %
		±	2 titre 512	5,9 %
	(99) Another measurement principle	±	1 titre 32	2,9 %
		±	1 titre 64	2,9 %
	Total per sample: n = 34		Success (only evaluated results): evaluation	

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

E2 and S2 (1)	Tube + homozyg. expression	±	1 titre 16	5,3 %
	(2) Tube + heterozyg. expression	±	1 titre 1	5,3 %
	(3) Column agglut.+ homozyg. expres.	±	1 titre 16	5,3 %
		±	3 titre 32	16 %
		±	2 titre 128	11 %
	(4) Column agglut.+ heterozyg. expres.	±	1 titre 0 (not measurable)	5,3 %
		±	1 titre 8	5,3 %
		±	1 titre 16	5,3 %
		±	1 titre 32	5,3 %
		±	3 titre 64	16 %

Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (4)	Column agglut.+ heterozyg. expres.	± 2	titre 128	11 %
		± 1	titre 256	5,3 %
	(99) Another measurement principle	± 1	titre 128	5,3 %
Total per sample: n = 19		Success (only evaluated results): evaluation		

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

E2 and S2 (0)	Not specified	± 1	titre 1	3,1 %
	(1) Tube + homozyg. expression	± 2	titre 16	6,3 %
	(2) Tube + heterozyg. expression	± 1	titre 0 (not measurable)	3,1 %
	(3) Column agglut.+ homozyg. expres.	± 1	titre 1	3,1 %
		± 2	titre 2	6,3 %
		± 2	titre 4	6,3 %
		± 5	titre 8	16 %
		± 3	titre 16	9,4 %
		± 1	titre 32	3,1 %
	(4) Column agglut.+ heterozyg. expres.	± 4	titre 0 (not measurable)	13 %
		± 1	titre 1	3,1 %
		± 2	titre 2	6,3 %
		± 1	titre 4	3,1 %
		± 3	titre 8	9,4 %
		± 1	titre 16	3,1 %
		± 1	titre 32	3,1 %
	(99) Another measurement principle	± 1	titre 0 (not measurable)	3,1 %
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	(0) Not specified	>>> 1	Positive test	0,88 %
	(3) Column agglut.: IAT - automat	>>> 14	Positive test	12 %
	(4) Column agglut.: enzyme - automat	>>> 1	Positive test	0,88 %
	(5) Solid phase	>>> 4	Positive test	3,5 %
	(6) Microplate: IAT	>>> 1	Positive test	0,88 %
	(8) Column agglut.: IAT - manual	>>> 89	Positive test	78 %
	(9) Column agglut.: enzyme - manual	>>> 3	Positive test	2,6 %
	(99) Another measurement principle	>>> 1	Positive test	0,88 %
Total per sample: n = 114		Success: 100 %		
S2	(0) Not specified	>>> 1	Positive test	0,88 %
	(3) Column agglut.: IAT - automat	>>> 14	Positive test	12 %
	(4) Column agglut.: enzyme - automat	>>> 1	Positive test	0,88 %
	(5) Solid phase	>>> 3	Positive test	2,6 %
		>>> 1	Negative test	0,88 %
	(6) Microplate: IAT	>>> 1	Positive test	0,88 %
	(8) Column agglut.: IAT - manual	>>> 3	Negative test	2,6 %
		>>> 86	Positive test	75 %
	(9) Column agglut.: enzyme - manual	>>> 1	Negative test	0,88 %
		>>> 2	Positive test	1,8 %
	(99) Another measurement principle	>>> 1	Positive test	0,88 %
Total per sample: n = 114		Success: 96 %		
Total success: 96 %				

(762) Serve transfusion product (segment K1)

S1	(1) Evaluation (K1)	± 114	Impossible, risk of haemolysis	100 %
Total per sample: n = 114		Success (only evaluated results): evaluation		
S2	(1) Evaluation (K1)	± 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	(0) Not specified	>>> 1	Negative test	0,88 %
	(3) Column agglut.: IAT - automat	>>> 15	Negative test	13 %
	(5) Solid phase	>>> 3	Negative test	2,6 %

Summary statistics - qualitative results

(Groups: measurement principle)

EQA round: IH4/17 - Blood Group Serology

Dead line: 23.11.2017

Test

Sample	Group	N	Result	N _{rel}
S1	(5) Solid phase	1	Positive test	0,88 %
	(6) Microplate: IAT	>>> 1	Negative test	0,88 %
	(8) Column agglut.: IAT - manual	>>> 89	Negative test	78 %
	(9) Column agglut.: enzyme - manual	>>> 3	Negative test	2,6 %
	(99) Another measurement principle	>>> 1	Negative test	0,88 %
----- Total per sample: n = 114 ----- Success: 99 %				
S2	(0) Not specified	>>> 1	Positive test	0,88 %
	(3) Column agglut.: IAT - automat	>>> 15	Positive test	13 %
	(5) Solid phase	>>> 4	Positive test	3,5 %
	(6) Microplate: IAT	>>> 1	Positive test	0,88 %
	(8) Column agglut.: IAT - manual	>>> 89	Positive test	78 %
	(9) Column agglut.: enzyme - manual	>>> 3	Positive test	2,6 %
(99) Another measurement principle	>>> 1	Positive test	0,88 %	
----- Total per sample: n = 114 ----- Success: 100 %				
Total success: 99 %				

(765) Serve transfusion product (segment K2)

S1	(1) Evaluation (K2)	± 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	(1) Evaluation (K2)	± 114	Impossible, risk of haemolysis	100 %
----- Total per sample: n = 114 ----- Success (only evaluated results): evaluation				

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End of report

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