

EQA round: IH2/21 - Blood Group Serology

Key:	>>> ... marks correct (expected) result	N ... number of the results
	> ... marks conditionally correct (acceptable) result	Nrel ... relative number of the results
	± ... marks the result not evaluated	

Test

Sample	Group	N	Result	N _{rel}
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Set 1 and 2

(700) AB0 blood group

E1 and S1 (1) Tube test	>>>	52	Blood group: A	37 %
(2) Microplate - aut.		1	Blood group: 0	0,71 %
	>>>	10	Blood group: A	7,1 %
(3) Microplate - man.	>>>	5	Blood group: A	3,6 %
(4) Microplate reagent kit - aut.	>>>	2	Blood group: A	1,4 %
(5) Microplate reagent kit - man.	>>>	3	Blood group: A	2,1 %
(7) Column agglutination - automat	>>>	38	Blood group: A	27 %
(9) Column agglutination - manual	>>>	28	Blood group: A	20 %
(10) Solid phase	>>>	1	Blood group: A	0,71 %
Total per sample: n = 140		Success: 99 %		

E2 and S2 (1) Tube test	>>>	52	Blood group: B	37 %
(2) Microplate - aut.	>>>	11	Blood group: B	7,9 %
(3) Microplate - man.	>>>	5	Blood group: B	3,6 %
(4) Microplate reagent kit - aut.	>>>	2	Blood group: B	1,4 %
(5) Microplate reagent kit - man.	>>>	3	Blood group: B	2,1 %
(7) Column agglutination - automat	>>>	38	Blood group: B	27 %
(9) Column agglutination - manual	>>>	28	Blood group: B	20 %
(10) Solid phase	>>>	1	Blood group: B	0,71 %
Total per sample: n = 140		Success: 100 %		

Total success: 99 %

(703) A subgroup

E1 and S1 (0) Not specified	>>>	44	A subgroup A1	100 %
Total per sample: n = 44		Success: 100 %		

E2 and S2 (0) Not specified	>>>	44	Not specified	100 %
Total per sample: n = 44		Success: 100 %		

Total success: 100 %

(705) Rh D antigen (blood-donor)

E1 and S1 (1) Tube test	>	3	Positive (RhD+)	3,9 %
	>>>	21	w/v (RhD weak/variant)	28 %
(2) Microplate - aut.		1	Negative (RhD-)	1,3 %
	>	2	Positive (RhD+)	2,6 %
	>>>	7	w/v (RhD weak/variant)	9,2 %
(3) Microplate - man.	>	1	Positive (RhD+)	1,3 %
	>>>	1	w/v (RhD weak/variant)	1,3 %
(4) Microplate reagent kit - aut.	>>>	2	w/v (RhD weak/variant)	2,6 %
(5) Microplate reagent kit - man.	>	1	Positive (RhD+)	1,3 %
(7) Column agglutination - automat		1	Negative (RhD-)	1,3 %
	>	2	Positive (RhD+)	2,6 %
	>>>	17	w/v (RhD weak/variant)	22 %
(9) Column agglutination - manual		2	Negative (RhD-)	2,6 %
	>	4	Positive (RhD+)	5,3 %
	>>>	10	w/v (RhD weak/variant)	13 %
(10) Solid phase	>>>	1	w/v (RhD weak/variant)	1,3 %
Total per sample: n = 76		Success: 95 %		

E2 and S2 (1) Tube test	>>>	24	Positive (RhD+)	32 %
(2) Microplate - aut.	>>>	10	Positive (RhD+)	13 %
(3) Microplate - man.	>>>	2	Positive (RhD+)	2,6 %
(4) Microplate reagent kit - aut.	>>>	2	Positive (RhD+)	2,6 %
(5) Microplate reagent kit - man.	>>>	1	Positive (RhD+)	1,3 %
(7) Column agglutination - automat	>>>	19	Positive (RhD+)	25 %
		1	w/v (RhD weak/variant)	1,3 %
(9) Column agglutination - manual	>>>	16	Positive (RhD+)	21 %
(10) Solid phase	>>>	1	Positive (RhD+)	1,3 %
Total per sample: n = 76		Success: 99 %		

Total success: 93 %

(709) Rh D antigen (recipient)

E1 and S1 (0) Not specified	>	3	Negative (RhD-)	2,2 %
(1) Tube test	>	28	Negative (RhD-)	21 %
		2	Positive (RhD+)	1,5 %
	>>>	21	w/v (RhD weak/variant)	16 %
(2) Microplate - aut.		1	Not specified	0,74 %
	>	5	Negative (RhD-)	3,7 %

Test	Sample	Group	N	Result	N _{rel}	
E1 and S1	(2)	Microplate - aut.	>>>	3 w/v (RhD weak/variant)	2,2 %	
	(3)	Microplate - man.	>	4 Negative (RhD-)	3,0 %	
	(4)	Microplate reagent kit - aut.	>	2 Negative (RhD-)	1,5 %	
	(5)	Microplate reagent kit - man.	>	2 Negative (RhD-)	1,5 %	
	(7)	Column agglutination - automat	>	7 Negative (RhD-)	5,2 %	
			>>>	29 w/v (RhD weak/variant)	21 %	
	(9)	Column agglutination - manual	>	8 Negative (RhD-)	5,9 %	
				3 Positive (RhD+)	2,2 %	
			>>>	16 w/v (RhD weak/variant)	12 %	
	(10)	Solid phase	>	1 Negative (RhD-)	0,74 %	
	Total per sample: n = 135			Success: 96 %		
E2 and S2	(0)	Not specified	>>>	3 Positive (RhD+)	2,2 %	
	(1)	Tube test	>>>	51 Positive (RhD+)	38 %	
	(2)	Microplate - aut.	>>>	9 Positive (RhD+)	6,7 %	
	(3)	Microplate - man.	>>>	4 Positive (RhD+)	3,0 %	
	(4)	Microplate reagent kit - aut.	>>>	2 Positive (RhD+)	1,5 %	
	(5)	Microplate reagent kit - man.	>>>	2 Positive (RhD+)	1,5 %	
	(7)	Column agglutination - automat	>>>	36 Positive (RhD+)	27 %	
	(9)	Column agglutination - manual	>>>	27 Positive (RhD+)	20 %	
	(10)	Solid phase	>>>	1 Positive (RhD+)	0,74 %	
	Total per sample: n = 135			Success: 100 %		
	Total success: 96 %					

(715) Antigen C

E1 and S1	(1)	Tube test	>>>	15 Positive	23 %
	(2)	Microplate - aut.	>>>	7 Positive	11 %
	(4)	Microplate reagent kit - aut.	>>>	1 Positive	1,6 %
	(7)	Column agglutination - automat	>>>	11 Positive	17 %
	(9)	Column agglutination - manual	>>>	28 Positive	44 %
	(10)	Solid phase	>>>	2 Positive	3,1 %
Total per sample: n = 64			Success: 100 %		
E2 and S2	(1)	Tube test	>>>	15 Negative	23 %
	(2)	Microplate - aut.	>>>	7 Negative	11 %
	(4)	Microplate reagent kit - aut.	>>>	1 Negative	1,6 %
	(7)	Column agglutination - automat	>>>	11 Negative	17 %
	(9)	Column agglutination - manual	>>>	28 Negative	44 %
	(10)	Solid phase	>>>	2 Negative	3,1 %
Total per sample: n = 64			Success: 100 %		
Total success: 100 %					

(716) Antigen c

E1 and S1	(1)	Tube test		1 Negative	1,6 %	
			>>>	14 Positive	22 %	
	(2)	Microplate - aut.	>>>	7 Positive	11 %	
	(4)	Microplate reagent kit - aut.	>>>	1 Positive	1,6 %	
	(7)	Column agglutination - automat	>>>	12 Positive	19 %	
	(9)	Column agglutination - manual	>>>	27 Positive	42 %	
	(10)	Solid phase	>>>	2 Positive	3,1 %	
	Total per sample: n = 64			Success: 98 %		
	E2 and S2	(1)	Tube test	>>>	15 Positive	23 %
		(2)	Microplate - aut.	>>>	7 Positive	11 %
(4)		Microplate reagent kit - aut.	>>>	1 Positive	1,6 %	
(7)		Column agglutination - automat	>>>	12 Positive	19 %	
(9)		Column agglutination - manual	>>>	27 Positive	42 %	
(10)		Solid phase	>>>	2 Positive	3,1 %	
Total per sample: n = 64			Success: 100 %			
Total success: 98 %						

(717) Antigen Cw

E1 and S1	(1)	Tube test	>>>	16 Negative	29 %
	(2)	Microplate - aut.	>>>	7 Negative	13 %
	(7)	Column agglutination - automat	>>>	12 Negative	22 %
	(9)	Column agglutination - manual	>>>	18 Negative	33 %
	(10)	Solid phase	>>>	2 Negative	3,6 %
Total per sample: n = 55			Success: 100 %		
E2 and S2	(1)	Tube test	>>>	16 Negative	29 %
	(2)	Microplate - aut.	>>>	7 Negative	13 %
	(7)	Column agglutination - automat	>>>	12 Negative	22 %
	(9)	Column agglutination - manual	>>>	18 Negative	33 %
	(10)	Solid phase	>>>	2 Negative	3,6 %

Test		N	Result	N _{rel}
Sample	Group			
Total per sample: n = 55		Success: 100 %		
Total success: 100 %				
(718) Antigen E				
E1 and S1	(1) Tube test	>>> 15	Negative	23 %
	(2) Microplate - aut.	>>> 7	Negative	11 %
	(4) Microplate reagent kit - aut.	>>> 1	Negative	1,6 %
	(7) Column agglutination - automat	>>> 12	Negative	19 %
	(9) Column agglutination - manual	>>> 27	Negative	42 %
	(10) Solid phase	>>> 2	Negative	3,1 %
Total per sample: n = 64		Success: 100 %		
E2 and S2	(1) Tube test	>>> 15	Positive	23 %
	(2) Microplate - aut.	>>> 7	Positive	11 %
	(4) Microplate reagent kit - aut.	>>> 1	Positive	1,6 %
	(7) Column agglutination - automat	>>> 12	Positive	19 %
	(9) Column agglutination - manual	>>> 27	Positive	42 %
	(10) Solid phase	>>> 2	Positive	3,1 %
Total per sample: n = 64		Success: 100 %		
Total success: 100 %				
(719) Antigen e				
E1 and S1	(1) Tube test	>>> 15	Positive	23 %
	(2) Microplate - aut.	>>> 7	Positive	11 %
	(4) Microplate reagent kit - aut.	>>> 1	Positive	1,6 %
	(7) Column agglutination - automat	>>> 12	Positive	19 %
	(9) Column agglutination - manual	>>> 27	Positive	42 %
	(10) Solid phase	>>> 2	Positive	3,1 %
Total per sample: n = 64		Success: 100 %		
E2 and S2	(1) Tube test	>>> 15	Negative	23 %
	(2) Microplate - aut.	>>> 7	Negative	11 %
	(4) Microplate reagent kit - aut.	>>> 1	Negative	1,6 %
	(7) Column agglutination - automat	>>> 12	Negative	19 %
	(9) Column agglutination - manual	>>> 27	Negative	42 %
	(10) Solid phase	>>> 2	Negative	3,1 %
Total per sample: n = 64		Success: 100 %		
Total success: 100 %				
(720) Antigen K				
E1 and S1	(1) Tube test	>>> 1	Negative	1,5 %
	(2) Microplate - aut.	>>> 14	Positive	21 %
	(4) Microplate reagent kit - aut.	>>> 7	Positive	10 %
	(7) Column agglutination - automat	>>> 1	Positive	1,5 %
	(9) Column agglutination - manual	>>> 13	Positive	19 %
	(10) Solid phase	>>> 29	Positive	43 %
	(10) Solid phase	>>> 2	Positive	3,0 %
Total per sample: n = 67		Success: 99 %		
E2 and S2	(1) Tube test	>>> 15	Negative	22 %
	(2) Microplate - aut.	>>> 7	Negative	10 %
	(4) Microplate reagent kit - aut.	>>> 1	Negative	1,5 %
	(7) Column agglutination - automat	>>> 13	Negative	19 %
	(9) Column agglutination - manual	>>> 29	Negative	43 %
	(10) Solid phase	>>> 2	Negative	3,0 %
Total per sample: n = 67		Success: 100 %		
Total success: 99 %				
(721) Antigen k				
E1 and S1	(0) Not specified	>>> 2	Positive	4,8 %
	(1) Tube test	>>> 21	Positive	50 %
	(2) Microplate - aut.	>>> 1	Positive	2,4 %
	(7) Column agglutination - automat	>>> 4	Positive	9,5 %
	(9) Column agglutination - manual	>>> 13	Positive	31 %
	(10) Solid phase	>>> 1	Positive	2,4 %
Total per sample: n = 42		Success: 100 %		
E2 and S2	(0) Not specified	>>> 2	Not specified	4,8 %
	(1) Tube test	>>> 21	Positive	50 %
	(2) Microplate - aut.	>>> 1	Not specified	2,4 %
	(7) Column agglutination - automat	>>> 1	Not specified	2,4 %
	(9) Column agglutination - manual	>>> 3	Positive	7,1 %
	(10) Solid phase	>>> 13	Positive	31 %
	(10) Solid phase	>>> 1	Positive	2,4 %
Total per sample: n = 42		Success: 90 %		
Total success: 90 %				

Test		N	Result	N _{rel}
Sample	Group			
(722) Antigen M				
E1 and S1	(1) Tube test	>>> 19	Positive	54 %
	(2) Microplate - aut.	>>> 2	Positive	5,7 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 13	Positive	37 %
Total per sample: n = 35		Success: 100 %		
E2 and S2	(1) Tube test	>>> 19	Positive	54 %
	(2) Microplate - aut.	>>> 2	Positive	5,7 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 13	Positive	37 %
Total per sample: n = 35		Success: 100 %		
Total success: 100 %				
(723) Antigen N				
E1 and S1	(1) Tube test	>>> 13	Negative	42 %
		1	Positive	3,2 %
	(2) Microplate - aut.	>>> 1	Negative	3,2 %
	(7) Column agglutination - automat	>>> 1	Negative	3,2 %
	(9) Column agglutination - manual	>>> 15	Negative	48 %
Total per sample: n = 31		Success: 97 %		
E2 and S2	(1) Tube test	>>> 14	Positive	45 %
	(2) Microplate - aut.	>>> 1	Positive	3,2 %
	(7) Column agglutination - automat	>>> 1	Positive	3,2 %
	(9) Column agglutination - manual	>>> 15	Positive	48 %
Total per sample: n = 31		Success: 100 %		
Total success: 97 %				
(724) Antigen S				
E1 and S1	(1) Tube test	>>> 18	Positive	50 %
	(2) Microplate - aut.	>>> 1	Positive	2,8 %
	(7) Column agglutination - automat	>>> 1	Positive	2,8 %
	(9) Column agglutination - manual	>>> 15	Positive	42 %
	(10) Solid phase	>>> 1	Positive	2,8 %
Total per sample: n = 36		Success: 100 %		
E2 and S2	(1) Tube test	>>> 18	Negative	50 %
	(2) Microplate - aut.	>>> 1	Negative	2,8 %
	(7) Column agglutination - automat	>>> 1	Negative	2,8 %
	(9) Column agglutination - manual	>>> 15	Negative	42 %
	(10) Solid phase	>>> 1	Negative	2,8 %
Total per sample: n = 36		Success: 100 %		
Total success: 100 %				
(725) Antigen s				
E1 and S1	(1) Tube test	>>> 17	Positive	49 %
	(2) Microplate - aut.	>>> 1	Positive	2,9 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 15	Positive	43 %
	(10) Solid phase	>>> 1	Positive	2,9 %
Total per sample: n = 35		Success: 100 %		
E2 and S2	(1) Tube test	>>> 17	Positive	49 %
	(2) Microplate - aut.	>>> 1	Positive	2,9 %
	(7) Column agglutination - automat	>>> 1	Positive	2,9 %
	(9) Column agglutination - manual	>>> 15	Positive	43 %
	(10) Solid phase	>>> 1	Positive	2,9 %
Total per sample: n = 35		Success: 100 %		
Total success: 100 %				
(726) Antigen P1				
E1 and S1	(1) Tube test	>>> 19	Positive	73 %
	(2) Microplate - aut.	>>> 1	Positive	3,8 %
	(7) Column agglutination - automat	>>> 1	Positive	3,8 %
	(9) Column agglutination - manual	>>> 5	Positive	19 %
Total per sample: n = 26		Success: 100 %		
E2 and S2	(1) Tube test	>>> 19	Negative	73 %
	(2) Microplate - aut.	>>> 1	Negative	3,8 %
	(7) Column agglutination - automat	>>> 1	Negative	3,8 %
	(9) Column agglutination - manual	>>> 5	Negative	19 %
Total per sample: n = 26		Success: 100 %		
Total success: 100 %				
(727) Antigen Fya				
E1 and S1	(1) Tube test	>>> 14	Positive	39 %

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Test	Sample	Group	N	Result	N _{rel}	
E1 and S1	(2)	Microplate - aut.	>>>	1	Positive	2,8 %
		(7) Column agglutination - automat	>>>	1	Positive	2,8 %
		(9) Column agglutination - manual	>>>	19	Positive	53 %
		(10) Solid phase	>>>	1	Positive	2,8 %
		Total per sample: n = 36		Success: 100 %	-	-
E2 and S2	(1)	Tube test	>>>	14	Negative	39 %
		(2) Microplate - aut.	>>>	1	Negative	2,8 %
		(7) Column agglutination - automat	>>>	1	Negative	2,8 %
		(9) Column agglutination - manual	>>>	19	Negative	53 %
		(10) Solid phase	>>>	1	Negative	2,8 %
Total per sample: n = 36		Success: 100 %	-	-	-	
Total success: 100 %						
(728) Antigen Fyb						
E1 and S1	(1)	Tube test	>>>	14	Positive	39 %
		(2) Microplate - aut.	>>>	1	Positive	2,8 %
		(7) Column agglutination - automat	>>>	1	Positive	2,8 %
		(9) Column agglutination - manual	>>>	19	Positive	53 %
		(10) Solid phase	>>>	1	Positive	2,8 %
Total per sample: n = 36		Success: 100 %	-	-	-	
E2 and S2	(1)	Tube test	>>>	14	Positive	39 %
		(2) Microplate - aut.	>>>	1	Positive	2,8 %
		(7) Column agglutination - automat	>>>	1	Positive	2,8 %
		(9) Column agglutination - manual	>>>	19	Positive	53 %
		(10) Solid phase	>>>	1	Positive	2,8 %
Total per sample: n = 36		Success: 100 %	-	-	-	
Total success: 100 %						
(729) Antigen Jka						
E1 and S1	(1)	Tube test	>>>	19	Positive	51 %
		(2) Microplate - aut.	>>>	2	Positive	5,4 %
		(7) Column agglutination - automat	>>>	1	Positive	2,7 %
		(9) Column agglutination - manual	>>>	15	Positive	41 %
		Total per sample: n = 37		Success: 100 %	-	-
E2 and S2	(1)	Tube test	>>>	19	Positive	51 %
		(2) Microplate - aut.	>>>	2	Positive	5,4 %
		(7) Column agglutination - automat	>>>	1	Positive	2,7 %
		(9) Column agglutination - manual	>>>	15	Positive	41 %
		Total per sample: n = 37		Success: 100 %	-	-
Total success: 100 %						
(730) Antigen Jkb						
E1 and S1	(1)	Tube test	>>>	19	Positive	51 %
		(2) Microplate - aut.	>>>	2	Positive	5,4 %
		(7) Column agglutination - automat	>>>	1	Positive	2,7 %
		(9) Column agglutination - manual	>>>	15	Positive	41 %
		Total per sample: n = 37		Success: 100 %	-	-
E2 and S2	(1)	Tube test	>>>	19	Positive	51 %
		(2) Microplate - aut.	>>>	2	Positive	5,4 %
		(7) Column agglutination - automat	>>>	1	Positive	2,7 %
		(9) Column agglutination - manual	>>>	15	Positive	41 %
		Total per sample: n = 37		Success: 100 %	-	-
Total success: 100 %						
(731) Antigen Lua						
E1 and S1	(1)	Tube test	>>>	9	Negative	36 %
		(7) Column agglutination - automat	>>>	1	Negative	4,0 %
		(9) Column agglutination - manual	>>>	15	Negative	60 %
Total per sample: n = 25		Success: 100 %	-	-	-	
E2 and S2	(1)	Tube test	>>>	9	Negative	36 %
		(7) Column agglutination - automat	>>>	1	Negative	4,0 %
		(9) Column agglutination - manual	>>>	15	Negative	60 %
Total per sample: n = 25		Success: 100 %	-	-	-	
Total success: 100 %						
(732) Antigen Lub						
E1 and S1	(1)	Tube test	>>>	12	Positive	48 %
		(7) Column agglutination - automat	>>>	1	Positive	4,0 %
		(9) Column agglutination - manual	>>>	12	Positive	48 %
Total per sample: n = 25		Success: 100 %	-	-	-	
E2 and S2	(1)	Tube test	>>>	12	Positive	48 %

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Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (7)	Column agglutination - automat	>>> 1	Positive	4,0 %
(9)	Column agglutination - manual	>>> 12	Positive	48 %
Total per sample: n = 25		Success: 100 %		
Total success: 100 %				
(733) Antigen Lea				
E1 and S1 (1)	Tube test	>>> 17	Negative	55 %
			1 Positive	3,2 %
(7)	Column agglutination - automat	>>> 1	Negative	3,2 %
(9)	Column agglutination - manual	>>> 12	Negative	39 %
Total per sample: n = 31		Success: 97 %		
E2 and S2 (1)	Tube test	>>> 18	Negative	58 %
(7)	Column agglutination - automat	>>> 1	Negative	3,2 %
(9)	Column agglutination - manual	>>> 12	Negative	39 %
Total per sample: n = 31		Success: 100 %		
Total success: 97 %				
(734) Antigen Leb				
E1 and S1 (1)	Tube test	3	Negative	9,7 %
		>>> 15	Positive	48 %
(7)	Column agglutination - automat	>>> 1	Positive	3,2 %
(9)	Column agglutination - manual	>>> 12	Positive	39 %
Total per sample: n = 31		Success: 90 %		
E2 and S2 (1)	Tube test	>>> 18	Negative	58 %
(7)	Column agglutination - automat	>>> 1	Negative	3,2 %
(9)	Column agglutination - manual	>>> 12	Negative	39 %
Total per sample: n = 31		Success: 100 %		
Total success: 90 %				
(737) Direct Coombs (antiglobulin) test				
E1 and S1 (1)	Tube test: IAT	>>> 5	Negative	4,3 %
(3)	Column agglut.: IAT - automat	>>> 26	Negative	22 %
(5)	Solid phase	>>> 1	Negative	0,85 %
(6)	Microplate: IAT	>>> 1	Negative	0,85 %
(8)	Column agglut.: IAT - manual	>>> 83	Negative	71 %
(9)	Column agglut.: enzyme - manual	>>> 1	Negative	0,85 %
Total per sample: n = 117		Success: 100 %		
E2 and S2 (1)	Tube test: IAT	>>> 5	Negative	4,3 %
(3)	Column agglut.: IAT - automat	>>> 26	Negative	22 %
(5)	Solid phase	>>> 1	Negative	0,85 %
(6)	Microplate: IAT	>>> 1	Negative	0,85 %
(8)	Column agglut.: IAT - manual	>>> 83	Negative	71 %
(9)	Column agglut.: enzyme - manual	>>> 1	Negative	0,85 %
Total per sample: n = 117		Success: 100 %		
Total success: 100 %				
(741) Antibody screening (IAT, blood donor)				
E1 and S1 (1)	Tube test: IAT	>>> 1	Positive	1,4 %
(3)	Column agglut.: IAT - automat	>>> 20	Positive	29 %
(4)	Column agglut.: enzyme - automat	>>> 1	Positive	1,4 %
(5)	Solid phase	>>> 9	Positive	13 %
(6)	Microplate: IAT	>>> 2	Positive	2,9 %
(8)	Column agglut.: IAT - manual	>>> 37	Positive	53 %
Total per sample: n = 70		Success: 100 %		
E2 and S2 (1)	Tube test: IAT	>>> 1	Positive	1,4 %
(3)	Column agglut.: IAT - automat	>>> 20	Positive	29 %
(4)	Column agglut.: enzyme - automat	>>> 1	Positive	1,4 %
(5)	Solid phase	>>> 9	Positive	13 %
(6)	Microplate: IAT	>>> 2	Positive	2,9 %
(8)	Column agglut.: IAT - manual	>>> 37	Positive	53 %
Total per sample: n = 70		Success: 100 %		
Total success: 100 %				
(743) Antibody screening (IAT, recipient)				
E1 and S1 (0)	Not specified	>>> 1	Positive	0,79 %
(1)	Tube test: IAT	>>> 1	Positive	0,79 %
(3)	Column agglut.: IAT - automat	>>> 33	Positive	26 %
(4)	Column agglut.: enzyme - automat	>>> 1	Positive	0,79 %
(5)	Solid phase	>>> 5	Positive	3,9 %
(6)	Microplate: IAT	>>> 1	Positive	0,79 %
(8)	Column agglut.: IAT - manual	>>> 84	Positive	66 %

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Test		N	Result	N _{rel}
Sample	Group			
E1 and S1 (9)	Column agglut.: enzyme - manual	>>> 1	Positive	0,79 %
Total per sample: n = 127		Success: 100 %		
E2 and S2 (0)	Not specified	>>> 1	Positive	0,79 %
	(1) Tube test: IAT	>>> 1	Positive	0,79 %
	(3) Column agglut.: IAT - automat	>>> 33	Positive	26 %
	(4) Column agglut.: enzyme - automat	>>> 1	Positive	0,79 %
	(5) Solid phase	>>> 5	Positive	3,9 %
	(6) Microplate: IAT	>>> 1	Positive	0,79 %
	(8) Column agglut.: IAT - manual	>>> 84	Positive	66 %
	(9) Column agglut.: enzyme - manual	>>> 1	Positive	0,79 %
Total per sample: n = 127		Success: 100 %		
Total success: 100 %				
(745) Antibody screening (IAT, pregnant)				
E1 and S1 (1)	Tube test: IAT	>>> 2	Positive	1,9 %
	(3) Column agglut.: IAT - automat	>>> 33	Positive	32 %
	(5) Solid phase	>>> 4	Positive	3,8 %
	(6) Microplate: IAT	>>> 1	Positive	0,96 %
	(8) Column agglut.: IAT - manual	>>> 64	Positive	62 %
Total per sample: n = 104		Success: 100 %		
E2 and S2 (1)	Tube test: IAT	>>> 2	Positive	1,9 %
	(3) Column agglut.: IAT - automat	>>> 33	Positive	32 %
	(5) Solid phase	>>> 4	Positive	3,8 %
	(6) Microplate: IAT	>>> 1	Positive	0,96 %
	(8) Column agglut.: IAT - manual	>>> 64	Positive	62 %
Total per sample: n = 104		Success: 100 %		
Total success: 100 %				
(747) Antibody screening (enzyme test)				
E1 and S1 (0)	Not specified	>>> 1	Positive	1,0 %
	(2) Tube test: enzyme	>>> 1	Positive	1,0 %
	(3) Column agglut.: IAT - automat	>>> 2	Positive	2,1 %
	(4) Column agglut.: enzyme - automat	>>> 1	Not specified	1,0 %
	(7) Microplate: enzyme	>>> 23	Positive	24 %
	(8) Column agglut.: IAT - manual	>>> 1	Positive	1,0 %
	(9) Column agglut.: enzyme - manual	>>> 66	Positive	69 %
Total per sample: n = 96		Success: 99 %		
E2 and S2 (0)	Not specified	>>> 1	Positive	1,0 %
	(2) Tube test: enzyme	>>> 1	Positive	1,0 %
	(3) Column agglut.: IAT - automat	>>> 2	Positive	2,1 %
	(4) Column agglut.: enzyme - automat	>>> 24	Positive	25 %
	(7) Microplate: enzyme	>>> 1	Positive	1,0 %
	(8) Column agglut.: IAT - manual	>>> 1	Positive	1,0 %
	(9) Column agglut.: enzyme - manual	>>> 66	Positive	69 %
Total per sample: n = 96		Success: 100 %		
Total success: 99 %				
(750) Antibody identification				
E1 and S1 (0)	Not specified	>>> 43	anti-E	100 %
Total per sample: n = 43		Success: 100 %		
E2 and S2 (0)	Not specified	> 16	anti-e	37 %
		>>> 27	anti-e; anti-C	63 %
Total per sample: n = 43		Success: 100 %		
Total success: 100 %				
(752) Antibody titre, Sample 1: 1st antibody				
E1 and S1 (0)	Not specified	± 1	titre 16	3,2 %
	(1) Tube + homozyg. expression	± 1	titre 8	3,2 %
		± 2	titre 16	6,5 %
		± 1	titre 32	3,2 %
	(3) Column agglut.+ homozyg. expres.	± 3	titre 16	9,7 %
		± 1	titre 32	3,2 %
	(4) Column agglut.+ heterozyg. expres.	± 1	titre 4	3,2 %
		± 9	titre 8	29 %
		± 6	titre 16	19 %
		± 5	titre 32	16 %
		± 1	titre 64	3,2 %
Total per sample: n = 31		Success (only evaluated results): evaluation		
(756) Antibody titre, Sample 2: 1st antibody				
E2 and S2 (0)	Not specified	± 1	titre 1	3,4 %

Test	Sample	Group	N	Result	N _{rel}	
E2 and S2	(1) Tube + homozyg. expression		± 1	titre 1	3,4 %	
			± 1	titre 8	3,4 %	
			± 1	titre 64	3,4 %	
	(2) Tube + heterozyg. expression		± 1	titre 4	3,4 %	
			± 1	titre 16	3,4 %	
			± 2	titre 2	6,9 %	
	(3) Column agglut.+ homozyg. expres.		± 4	titre 4	14 %	
			± 2	titre 8	6,9 %	
			± 1	titre 64	3,4 %	
		(4) Column agglut.+ heterozyg. expres.		± 4	titre 1	14 %
				± 2	titre 2	6,9 %
				± 2	titre 4	6,9 %
		± 3	titre 8	10 %		
		± 2	titre 16	6,9 %		
		± 1	titre 32	3,4 %		
----- Total per sample: n = 29 ----- Success (only evaluated results): evaluation-----						

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

E2 and S2	(0) Not specified		± 1	titre 32	6,3 %
	(1) Tube + homozyg. expression		± 1	titre 32	6,3 %
			± 1	titre 2	6,3 %
	(3) Column agglut.+ homozyg. expres.		± 2	titre 32	13 %
			± 1	titre 0 (not measurable)	6,3 %
	(4) Column agglut.+ heterozyg. expres.		± 1	titre 8	6,3 %
			± 4	titre 16	25 %
		± 5	titre 32	31 %	
----- Total per sample: n = 16 ----- Success (only evaluated results): evaluation-----					

Set 3**(760) Crossmatch**

S1	All results	>>> 115	Crossmatch successful	100 %
----- Total per sample: n = 115 ----- Success: 100 % -----				
S2	All results	1	Crossmatch not successful	0,87 %
		>>> 114	Crossmatch successful	99 %
----- Total per sample: n = 115 ----- Success: 99 % -----				
Total success: 99 %				

(761) Crossmatch (segment K1)

S1	(0) Not specified	>>> 2	Positive test	1,7 %	
	(3) Column agglut.: IAT - automat	>>> 22	Positive test	19 %	
	(5) Solid phase	>>> 3	Positive test	2,6 %	
	(6) Microplate: IAT	>>> 1	Positive test	0,87 %	
	(8) Column agglut.: IAT - manual	>>> 84	Positive test	73 %	
	(9) Column agglut.: enzyme - manual	>>> 2	Positive test	1,7 %	
	(99) Another measurement principle	>>> 1	Positive test	0,87 %	
	----- Total per sample: n = 115 ----- Success: 100 % -----				
	S2	(0) Not specified	> 1	Negative test	0,87 %
		>>> 1	Positive test	0,87 %	
(3) Column agglut.: IAT - automat		> 6	Negative test	5,2 %	
		>>> 16	Positive test	14 %	
(5) Solid phase		> 1	Negative test	0,87 %	
		>>> 2	Positive test	1,7 %	
(6) Microplate: IAT		> 1	Negative test	0,87 %	
(8) Column agglut.: IAT - manual		> 29	Negative test	25 %	
		>>> 55	Positive test	48 %	
(9) Column agglut.: enzyme - manual		> 1	Negative test	0,87 %	
	>>> 1	Positive test	0,87 %		
(99) Another measurement principle	>>> 1	Positive test	0,87 %		
----- Total per sample: n = 115 ----- Success: 100 % -----					
Total success: 100 %					

(762) Serve transfusion product (segment K1)

S1	(0) Not specified	± 112	Impossible, risk of haemolysis	98 %
		± 1	Decision depends on results of other tests not performed in our laboratory	0,88 %
		± 1	Only if more suitable products are not available	0,88 %
----- Total per sample: n = 114 ----- Success (only evaluated results): evaluation-----				
S2	(0) Not specified	± 79	Impossible, risk of haemolysis	69 %
		± 27	Decision depends on results of other tests not performed in our laboratory	24 %
		± 4	Only if more suitable products are not available	3,5 %

Summary statistics - qualitative results

(Groups: measurement principle)

EQA round: IH2/21 - Blood Group Serology

Deadline: 04.06.2021

Test		N	Result	N _{rel}
Sample	Group			
S2	(0) Not specified	± 4	Possible	3,5 %
Total per sample: n = 114		Success (only evaluated results): evaluation		
(764) Crossmatch (segment K2)				
S1	(0) Not specified	>>> 2	Negative test	1,7 %
	(3) Column agglut.: IAT - automat	>>> 19	Negative test	17 %
		>>> 3	Positive test	2,6 %
	(5) Solid phase	>>> 3	Negative test	2,6 %
	(6) Microplate: IAT	>>> 1	Negative test	0,87 %
	(8) Column agglut.: IAT - manual	>>> 75	Negative test	65 %
		>>> 10	Positive test	8,7 %
	(9) Column agglut.: enzyme - manual	>>> 1	Negative test	0,87 %
	(99) Another measurement principle	>>> 1	Negative test	0,87 %
Total per sample: n = 115		Success: 100 %		
S2	(0) Not specified	>>> 2	Positive test	1,7 %
	(3) Column agglut.: IAT - automat	>>> 22	Positive test	19 %
	(5) Solid phase	>>> 3	Positive test	2,6 %
	(6) Microplate: IAT	>>> 1	Positive test	0,87 %
	(8) Column agglut.: IAT - manual		1 Negative test	0,87 %
		>>> 84	Positive test	73 %
	(9) Column agglut.: enzyme - manual	>>> 1	Positive test	0,87 %
	(99) Another measurement principle	>>> 1	Positive test	0,87 %
Total per sample: n = 115		Success: 99 %		
Total success: 99 %				
(765) Serve transfusion product (segment K2)				
S1	(0) Not specified	± 22	Impossible, risk of haemolysis	19 %
		± 62	Decision depends on results of other tests not performed in our laboratory	54 %
		± 17	Only if more suitable products are not available	15 %
		± 13	Possible	11 %
Total per sample: n = 114		Success (only evaluated results): evaluation		
S2	(0) Not specified	± 111	Impossible, risk of haemolysis	97 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,8 %
		± 1	Only if more suitable products are not available	0,88 %
Total per sample: n = 114		Success (only evaluated results): evaluation		

st_kl

End of report

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