

## EQA round: IH1/22 - 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 <sub>rel</sub>
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## Set 1 and 2

## (700) AB0 blood group

E1 and S1	(1) Tube test	>>>	66	Blood group: B	34 %
	(2) Microplate - aut.	>>>	8	Blood group: B	4,1 %
	(3) Microplate - man.	>>>	6	Blood group: B	3,1 %
	(4) Microplate reagent kit - aut.	>>>	1	Blood group: B	0,52 %
	(6) Microplate - without centrifug.	>>>	1	Blood group: B	0,52 %
	(7) Column agglutination - automat	>>>	40	Blood group: B	21 %
	(9) Column agglutination - manual	>>>	71	Blood group: B	37 %
	(10) Solid phase	>>>	1	Blood group: B	0,52 %
Total per sample: n = 194		Success: 100 %			

E2 and S2	(1) Tube test	>>>	66	Blood group: A	34 %
	(2) Microplate - aut.	>>>	8	Blood group: A	4,1 %
	(3) Microplate - man.	>>>	6	Blood group: A	3,1 %
	(4) Microplate reagent kit - aut.	>>>	1	Blood group: A	0,52 %
	(6) Microplate - without centrifug.	>>>	1	Blood group: A	0,52 %
	(7) Column agglutination - automat	>>>	40	Blood group: A	21 %
	(9) Column agglutination - manual	>>>	71	Blood group: A	37 %
	(10) Solid phase	>>>	1	Blood group: A	0,52 %
Total per sample: n = 194		Success: 100 %			

Total success: 100 %

## (703) A subgroup

E1 and S1	(0) Not specified	>>>	52	Not specified	100 %
Total per sample: n = 52		Success: 100 %			

E2 and S2	(0) Not specified	>>>	1	A subgroup A1	1,9 %
		>>>	51	A subgroup A2	98 %
Total per sample: n = 52		Success: 98 %			

Total success: 98 %

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

E1 and S1	(0) Not specified	>>>	1	Negative (RhD-)	0,82 %
	(1) Tube test	>>>	46	Negative (RhD-)	38 %
	(2) Microplate - aut.	>>>	10	Negative (RhD-)	8,2 %
	(3) Microplate - man.	>>>	2	Negative (RhD-)	1,6 %
	(7) Column agglutination - automat	>>>	23	Negative (RhD-)	19 %
	(9) Column agglutination - manual	>>>	39	Negative (RhD-)	32 %
	(10) Solid phase	>>>	1	Negative (RhD-)	0,82 %
Total per sample: n = 122		Success: 100 %			

E2 and S2	(0) Not specified	>>>	1	Negative (RhD-)	0,82 %
	(1) Tube test	>>>	46	Negative (RhD-)	38 %
	(2) Microplate - aut.	>>>	10	Negative (RhD-)	8,2 %
	(3) Microplate - man.	>>>	2	Negative (RhD-)	1,6 %
	(7) Column agglutination - automat	>>>	23	Negative (RhD-)	19 %
	(9) Column agglutination - manual	>>>	38	Negative (RhD-)	31 %
		>>>	1	Positive (RhD+)	0,82 %
	(10) Solid phase	>>>	1	Negative (RhD-)	0,82 %
Total per sample: n = 122		Success: 99 %			

Total success: 99 %

## (709) Rh D antigen (recipient)

E1 and S1	(1) Tube test	>>>	71	Negative (RhD-)	39 %
	(2) Microplate - aut.	>>>	6	Negative (RhD-)	3,3 %
	(3) Microplate - man.	>>>	2	Negative (RhD-)	1,1 %
	(7) Column agglutination - automat	>>>	38	Negative (RhD-)	21 %
	(9) Column agglutination - manual	>>>	66	Negative (RhD-)	36 %
	(10) Solid phase	>>>	1	Negative (RhD-)	0,54 %
Total per sample: n = 184		Success: 100 %			

E2 and S2	(1) Tube test	>>>	71	Negative (RhD-)	39 %
	(2) Microplate - aut.	>>>	6	Negative (RhD-)	3,3 %
	(3) Microplate - man.	>>>	2	Negative (RhD-)	1,1 %
	(7) Column agglutination - automat	>>>	38	Negative (RhD-)	21 %
	(9) Column agglutination - manual	>>>	66	Negative (RhD-)	36 %
	(10) Solid phase	>>>	1	Negative (RhD-)	0,54 %
Total per sample: n = 184		Success: 100 %			

Total success: 100 %

Test		N	Result	N <sub>rel</sub>
Sample	Group			
<b>(715) Antigen C</b>				
E1 and S1	(1) Tube test	>>> 25	Negative	25 %
	(2) Microplate - aut.	>>> 4	Negative	3,9 %
	(7) Column agglutination - automat	>>> 18	Negative	18 %
	(9) Column agglutination - manual	>>> 54	Negative	53 %
	(10) Solid phase	>>> 1	Negative	0,98 %
Total per sample: n = 102		Success: 100 %		
E2 and S2	(1) Tube test	>>> 25	Negative	25 %
	(2) Microplate - aut.	>>> 4	Negative	3,9 %
	(7) Column agglutination - automat	>>> 18	Negative	18 %
	(9) Column agglutination - manual	>>> 54	Negative	53 %
	(10) Solid phase	>>> 1	Negative	0,98 %
Total per sample: n = 102		Success: 100 %		
Total success: 100 %				
<b>(716) Antigen c</b>				
E1 and S1	(1) Tube test	>>> 25	Positive	25 %
	(2) Microplate - aut.	>>> 4	Positive	3,9 %
	(7) Column agglutination - automat	>>> 18	Positive	18 %
	(9) Column agglutination - manual	>>> 54	Positive	53 %
	(10) Solid phase	>>> 1	Positive	0,98 %
Total per sample: n = 102		Success: 100 %		
E2 and S2	(1) Tube test	>>> 25	Positive	25 %
	(2) Microplate - aut.	>>> 4	Positive	3,9 %
	(7) Column agglutination - automat	>>> 18	Positive	18 %
	(9) Column agglutination - manual	>>> 54	Positive	53 %
	(10) Solid phase	>>> 1	Positive	0,98 %
Total per sample: n = 102		Success: 100 %		
Total success: 100 %				
<b>(717) Antigen Cw</b>				
E1 and S1	(0) Not specified	>>> 1	Negative	1,3 %
	(1) Tube test	>>> 22	Negative	28 %
	(2) Microplate - aut.	>>> 4	Negative	5,0 %
	(7) Column agglutination - automat	>>> 17	Negative	21 %
	(9) Column agglutination - manual	>>> 36	Negative	45 %
Total per sample: n = 80		Success: 100 %		
E2 and S2	(0) Not specified	>>> 1	Negative	1,3 %
	(1) Tube test	>>> 22	Negative	28 %
	(2) Microplate - aut.	>>> 4	Negative	5,0 %
	(7) Column agglutination - automat	>>> 16	Negative	20 %
			1	1,3 %
	(9) Column agglutination - manual	>>> 36	Negative	45 %
Total per sample: n = 80		Success: 99 %		
Total success: 99 %				
<b>(718) Antigen E</b>				
E1 and S1	(1) Tube test	>>> 25	Negative	25 %
	(2) Microplate - aut.	>>> 4	Negative	3,9 %
	(7) Column agglutination - automat	>>> 18	Negative	18 %
	(9) Column agglutination - manual	>>> 54	Negative	53 %
	(10) Solid phase	>>> 1	Negative	0,98 %
Total per sample: n = 102		Success: 100 %		
E2 and S2	(1) Tube test	>>> 25	Negative	25 %
	(2) Microplate - aut.	>>> 4	Negative	3,9 %
	(7) Column agglutination - automat	>>> 18	Negative	18 %
	(9) Column agglutination - manual	>>> 54	Negative	53 %
	(10) Solid phase	>>> 1	Negative	0,98 %
Total per sample: n = 102		Success: 100 %		
Total success: 100 %				
<b>(719) Antigen e</b>				
E1 and S1	(1) Tube test	>>> 25	Positive	25 %
	(2) Microplate - aut.	>>> 4	Positive	3,9 %
	(7) Column agglutination - automat	>>> 18	Positive	18 %
	(9) Column agglutination - manual	>>> 54	Positive	53 %
	(10) Solid phase	>>> 1	Positive	0,98 %
Total per sample: n = 102		Success: 100 %		
E2 and S2	(1) Tube test	>>> 25	Positive	25 %
	(2) Microplate - aut.	>>> 4	Positive	3,9 %
	(7) Column agglutination - automat	>>> 18	Positive	18 %
	(9) Column agglutination - manual	>>> 54	Positive	53 %

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Test		N	Result	N <sub>rel</sub>
Sample	Group			
E2 and S2 (10)	Solid phase	>>> 1	Positive	0,98 %
Total per sample: n = 102		Success: 100 %		
Total success: 100 %				
<b>(720) Antigen K</b>				
E1 and S1 (1)	Tube test	>>> 26	Negative	24 %
	(2) Microplate - aut.	>>> 4	Negative	3,7 %
	(5) Microplate reagent kit - man.	>>> 1	Negative	0,92 %
	(7) Column agglutination - automat	>>> 20	Negative	18 %
	(9) Column agglutination - manual	>>> 57	Negative	52 %
	(10) Solid phase	>>> 1	Negative	0,92 %
Total per sample: n = 109		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 26	Negative	24 %
	(2) Microplate - aut.	>>> 4	Negative	3,7 %
	(5) Microplate reagent kit - man.	>>> 1	Negative	0,92 %
	(7) Column agglutination - automat	>>> 20	Negative	18 %
	(9) Column agglutination - manual	>>> 55	Negative	50 %
			1 Not specified	0,92 %
		>>> 1	Positive	0,92 %
	(10) Solid phase	>>> 1	Negative	0,92 %
Total per sample: n = 109		Success: 98 %		
Total success: 98 %				
<b>(721) Antigen k</b>				
E1 and S1 (0)	Not specified	>>> 1	Positive	2,3 %
	(1) Tube test	>>> 25	Positive	57 %
	(9) Column agglutination - manual	>>> 16	Positive	36 %
	(10) Solid phase	>>> 2	Positive	4,5 %
Total per sample: n = 44		Success: 100 %		
E2 and S2 (0)	Not specified	>>> 1	Positive	2,3 %
	(1) Tube test	>>> 25	Positive	57 %
	(9) Column agglutination - manual	>>> 16	Positive	36 %
	(10) Solid phase	>>> 2	Positive	4,5 %
Total per sample: n = 44		Success: 100 %		
Total success: 100 %				
<b>(722) Antigen M</b>				
E1 and S1 (1)	Tube test	>>> 26	Negative	53 %
	(2) Microplate - aut.	>>> 1	Negative	2,0 %
	(7) Column agglutination - automat	>>> 1	Negative	2,0 %
	(9) Column agglutination - manual	>>> 21	Negative	43 %
Total per sample: n = 49		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 26	Positive	53 %
	(2) Microplate - aut.	>>> 1	Positive	2,0 %
	(7) Column agglutination - automat	>>> 1	Positive	2,0 %
	(9) Column agglutination - manual	>>> 21	Positive	43 %
Total per sample: n = 49		Success: 100 %		
Total success: 100 %				
<b>(723) Antigen N</b>				
E1 and S1 (1)	Tube test	>>> 25	Positive	54 %
	(7) Column agglutination - automat	>>> 1	Positive	2,2 %
	(9) Column agglutination - manual	>>> 20	Positive	43 %
Total per sample: n = 46		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 24	Negative	52 %
			1 Positive	2,2 %
	(7) Column agglutination - automat	>>> 1	Negative	2,2 %
	(9) Column agglutination - manual	>>> 20	Negative	43 %
Total per sample: n = 46		Success: 98 %		
Total success: 98 %				
<b>(724) Antigen S</b>				
E1 and S1 (1)	Tube test	>>> 25	Negative	50 %
	(7) Column agglutination - automat	>>> 1	Negative	2,0 %
	(8) Lateral diffusion	>>> 1	Negative	2,0 %
	(9) Column agglutination - manual	>>> 22	Negative	44 %
	(10) Solid phase	>>> 1	Negative	2,0 %
Total per sample: n = 50		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 25	Positive	50 %
	(7) Column agglutination - automat	>>> 1	Positive	2,0 %
	(8) Lateral diffusion	>>> 1	Positive	2,0 %

Test		N	Result	N <sub>rel</sub>
Sample	Group			
E2 and S2 (9)	Column agglutination - manual	>>> 22	Positive	44 %
(10)	Solid phase	>>> 1	Positive	2,0 %
Total per sample: n = 50		Success: 100 %		
Total success: 100 %				
<b>(725) Antigen s</b>				
E1 and S1 (1)	Tube test	>>> 24	Positive	49 %
(7)	Column agglutination - automat	>>> 1	Positive	2,0 %
(8)	Lateral diffusion	>>> 1	Positive	2,0 %
(9)	Column agglutination - manual	>>> 22	Positive	45 %
(10)	Solid phase	>>> 1	Positive	2,0 %
Total per sample: n = 49		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 24	Positive	49 %
(7)	Column agglutination - automat	>>> 1	Positive	2,0 %
(8)	Lateral diffusion	>>> 1	Positive	2,0 %
(9)	Column agglutination - manual	>>> 22	Positive	45 %
(10)	Solid phase	>>> 1	Positive	2,0 %
Total per sample: n = 49		Success: 100 %		
Total success: 100 %				
<b>(726) Antigen P1</b>				
E1 and S1 (1)	Tube test	>>> 24	Negative	65 %
(7)	Column agglutination - automat	>>> 1	Negative	2,7 %
(9)	Column agglutination - manual	>>> 12	Negative	32 %
Total per sample: n = 37		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 24	Positive	65 %
(7)	Column agglutination - automat	>>> 1	Positive	2,7 %
(9)	Column agglutination - manual	>>> 12	Positive	32 %
Total per sample: n = 37		Success: 100 %		
Total success: 100 %				
<b>(727) Antigen Fya</b>				
E1 and S1 (1)	Tube test	>>> 19	Negative	38 %
(7)	Column agglutination - automat	>>> 1	Negative	2,0 %
(8)	Lateral diffusion	>>> 1	Negative	2,0 %
(9)	Column agglutination - manual	>>> 28	Negative	56 %
(10)	Solid phase	>>> 1	Negative	2,0 %
Total per sample: n = 50		Success: 100 %		
E2 and S2 (1)	Tube test	>>> 1	Negative	2,0 %
(7)	Column agglutination - automat	>>> 18	Positive	36 %
(8)	Lateral diffusion	>>> 1	Positive	2,0 %
(9)	Column agglutination - manual	>>> 28	Positive	56 %
(10)	Solid phase	>>> 1	Positive	2,0 %
Total per sample: n = 50		Success: 98 %		
Total success: 98 %				
<b>(728) Antigen Fyb</b>				
E1 and S1 (1)	Tube test	>>> 1	Negative	2,0 %
(7)	Column agglutination - automat	>>> 18	Positive	36 %
(8)	Lateral diffusion	>>> 1	Positive	2,0 %
(9)	Column agglutination - manual	>>> 28	Positive	56 %
(10)	Solid phase	>>> 1	Positive	2,0 %
Total per sample: n = 50		Success: 98 %		
E2 and S2 (1)	Tube test	>>> 19	Negative	38 %
(7)	Column agglutination - automat	>>> 1	Negative	2,0 %
(8)	Lateral diffusion	>>> 1	Negative	2,0 %
(9)	Column agglutination - manual	>>> 28	Negative	56 %
(10)	Solid phase	>>> 1	Negative	2,0 %
Total per sample: n = 50		Success: 100 %		
Total success: 98 %				
<b>(729) Antigen Jka</b>				
E1 and S1 (0)	Not specified	>>> 1	Negative	2,0 %
(1)	Tube test	>>> 24	Negative	47 %
(2)	Microplate - aut.	>>> 1	Negative	2,0 %
(7)	Column agglutination - automat	>>> 1	Negative	2,0 %
(8)	Lateral diffusion	>>> 1	Negative	2,0 %
(9)	Column agglutination - manual	>>> 23	Negative	45 %
Total per sample: n = 51		Success: 100 %		

Test		N	Result	N <sub>rel</sub>
Sample	Group			
E2 and S2 (0)	Not specified	>>> 1	Negative	2,0 %
	(1) Tube test	>>> 24	Negative	47 %
	(2) Microplate - aut.	>>> 1	Negative	2,0 %
	(7) Column agglutination - automat	>>> 1	Negative	2,0 %
	(8) Lateral diffusion	>>> 1	Negative	2,0 %
	(9) Column agglutination - manual	>>> 23	Negative	45 %
Total per sample: n = 51		Success: 100 %		
Total success: 100 %				
<b>(730) Antigen Jkb</b>				
E1 and S1 (0)	Not specified	>>> 1	Positive	2,0 %
	(1) Tube test	>>> 23	Positive	47 %
	(2) Microplate - aut.	>>> 1	Positive	2,0 %
	(7) Column agglutination - automat	>>> 1	Positive	2,0 %
	(8) Lateral diffusion	>>> 1	Positive	2,0 %
	(9) Column agglutination - manual	>>> 22	Positive	45 %
Total per sample: n = 49		Success: 100 %		
E2 and S2 (0)	Not specified	>>> 1	Positive	2,0 %
	(1) Tube test	>>> 23	Positive	47 %
	(2) Microplate - aut.	>>> 1	Positive	2,0 %
	(7) Column agglutination - automat	>>> 1	Positive	2,0 %
	(8) Lateral diffusion	>>> 1	Positive	2,0 %
	(9) Column agglutination - manual	>>> 22	Positive	45 %
Total per sample: n = 49		Success: 100 %		
Total success: 100 %				
<b>(731) Antigen Lua</b>				
E1 and S1 (0)	Not specified	>>> 1	Negative	2,9 %
		1	Positive	2,9 %
	(1) Tube test	>>> 12	Negative	35 %
	(7) Column agglutination - automat	>>> 1	Negative	2,9 %
	(9) Column agglutination - manual	>>> 19	Negative	56 %
Total per sample: n = 34		Success: 97 %		
E2 and S2 (0)	Not specified	>>> 1	Negative	2,9 %
		1	Positive	2,9 %
	(1) Tube test	>>> 12	Negative	35 %
	(7) Column agglutination - automat	>>> 1	Negative	2,9 %
	(9) Column agglutination - manual	>>> 19	Negative	56 %
Total per sample: n = 34		Success: 97 %		
Total success: 97 %				
<b>(732) Antigen Lub</b>				
E1 and S1 (0)	Not specified	1	Negative	3,0 %
	(1) Tube test	>>> 14	Positive	42 %
	(7) Column agglutination - automat	>>> 1	Positive	3,0 %
	(9) Column agglutination - manual	>>> 17	Positive	52 %
Total per sample: n = 33		Success: 97 %		
E2 and S2 (0)	Not specified	1	Negative	3,0 %
	(1) Tube test	>>> 14	Positive	42 %
	(7) Column agglutination - automat	>>> 1	Positive	3,0 %
	(9) Column agglutination - manual	>>> 17	Positive	52 %
Total per sample: n = 33		Success: 97 %		
Total success: 97 %				
<b>(733) Antigen Lea</b>				
E1 and S1 (1)	Tube test	2	Negative	5,4 %
		>>> 17	Positive	46 %
	(7) Column agglutination - automat	>>> 1	Positive	2,7 %
	(9) Column agglutination - manual	>>> 1	Negative	2,7 %
		>>> 16	Positive	43 %
Total per sample: n = 37		Success: 92 %		
E2 and S2 (1)	Tube test	1	Negative	2,7 %
		>>> 18	Positive	49 %
	(7) Column agglutination - automat	>>> 1	Positive	2,7 %
	(9) Column agglutination - manual	>>> 17	Positive	46 %
Total per sample: n = 37		Success: 97 %		
Total success: 92 %				
<b>(734) Antigen Leb</b>				
E1 and S1 (1)	Tube test	>>> 18	Negative	49 %
		1	Positive	2,7 %

## EQA round: IH1/22 - Blood Group Serology

## Test

Sample	Group	N	Result	N <sub>rel</sub>
E1 and S1	(7) Column agglutination - automat	>>> 1	Negative	2,7 %
	(9) Column agglutination - manual	>>> 17	Negative	46 %
	Total per sample: n = 37		Success: 97 %	
E2 and S2	(1) Tube test	>>> 17	Negative	46 %
		2	Positive	5,4 %
	(7) Column agglutination - automat	>>> 1	Negative	2,7 %
	(9) Column agglutination - manual	>>> 16	Negative	43 %
		1	Positive	2,7 %
Total per sample: n = 37		Success: 92 %		
Total success: 92 %				

## (737) Direct Coombs (antiglobulin) test

E1 and S1	(1) Tube test: IAT	>>> 4	Negative	2,6 %
	(3) Column agglut.: IAT - automat	>>> 20	Negative	13 %
	(4) Column agglut.: enzyme - automat	>>> 1	Negative	0,66 %
	(5) Solid phase	>>> 1	Negative	0,66 %
	(8) Column agglut.: IAT - manual	>>> 122	Negative	81 %
	(9) Column agglut.: enzyme - manual	>>> 3	Negative	2,0 %
Total per sample: n = 151		Success: 100 %		
E2 and S2	(1) Tube test: IAT	>>> 3	Negative	2,0 %
		1	Positive	0,66 %
	(3) Column agglut.: IAT - automat	>>> 20	Negative	13 %
	(4) Column agglut.: enzyme - automat	>>> 1	Negative	0,66 %
	(5) Solid phase	>>> 1	Negative	0,66 %
	(8) Column agglut.: IAT - manual	>>> 121	Negative	80 %
	1	Positive	0,66 %	
(9) Column agglut.: enzyme - manual	>>> 3	Negative	2,0 %	
Total per sample: n = 151		Success: 99 %		
Total success: 99 %				

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

E1 and S1	(1) Tube test: IAT	>>> 2	Positive	1,9 %
	(3) Column agglut.: IAT - automat	>>> 25	Positive	24 %
	(5) Solid phase	>>> 10	Positive	9,7 %
	(6) Microplate: IAT	>>> 3	Positive	2,9 %
	(8) Column agglut.: IAT - manual	>>> 63	Positive	61 %
Total per sample: n = 103		Success: 100 %		
E2 and S2	(1) Tube test: IAT	>>> 2	Positive	1,9 %
	(3) Column agglut.: IAT - automat	>>> 25	Positive	24 %
	(5) Solid phase	>>> 10	Positive	9,7 %
	(6) Microplate: IAT	>>> 3	Positive	2,9 %
	(8) Column agglut.: IAT - manual	>>> 63	Positive	61 %
Total per sample: n = 103		Success: 100 %		
Total success: 100 %				

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

E1 and S1	(3) Column agglut.: IAT - automat	>>> 36	Positive	21 %
	(4) Column agglut.: enzyme - automat	>>> 1	Positive	0,59 %
	(5) Solid phase	>>> 3	Positive	1,8 %
	(8) Column agglut.: IAT - manual	>>> 129	Positive	76 %
	(9) Column agglut.: enzyme - manual	>>> 1	Positive	0,59 %
Total per sample: n = 170		Success: 100 %		
E2 and S2	(3) Column agglut.: IAT - automat	>>> 36	Positive	21 %
	(4) Column agglut.: enzyme - automat	>>> 1	Positive	0,59 %
	(5) Solid phase	>>> 3	Positive	1,8 %
	(8) Column agglut.: IAT - manual	>>> 129	Positive	76 %
	(9) Column agglut.: enzyme - manual	>>> 1	Positive	0,59 %
Total per sample: n = 170		Success: 100 %		
Total success: 100 %				

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

E1 and S1	(1) Tube test: IAT	>>> 1	Positive	0,71 %
	(3) Column agglut.: IAT - automat	>>> 35	Positive	25 %
	(4) Column agglut.: enzyme - automat	>>> 1	Positive	0,71 %
	(5) Solid phase	>>> 3	Positive	2,1 %
	(8) Column agglut.: IAT - manual	>>> 100	Positive	71 %
Total per sample: n = 140		Success: 100 %		
E2 and S2	(1) Tube test: IAT	>>> 1	Positive	0,71 %
	(3) Column agglut.: IAT - automat	>>> 35	Positive	25 %
	(4) Column agglut.: enzyme - automat	>>> 1	Positive	0,71 %
	(5) Solid phase	>>> 3	Positive	2,1 %

## Test

Sample	Group	N	Result	N <sub>rel</sub>
E2 and S2 (8)	Column agglut.: IAT - manual	>>> 100	Positive	71 %
Total per sample: n = 140		Success: 100 %		
Total success: 100 %				

**(747) Antibody screening (enzyme test)**

E1 and S1 (0)	Not specified	1	Positive	0,93 %
(2)	Tube test: enzyme	>>> 3	Negative	2,8 %
		1	Positive	0,93 %
(3)	Column agglut.: IAT - automat	>>> 2	Negative	1,9 %
(4)	Column agglut.: enzyme - automat	>>> 20	Negative	19 %
(8)	Column agglut.: IAT - manual	>>> 6	Negative	5,6 %
		1	Positive	0,93 %
(9)	Column agglut.: enzyme - manual	>>> 74	Negative	69 %
Total per sample: n = 108		Success: 97 %		
E2 and S2 (0)	Not specified	>>> 1	Positive	0,93 %
(2)	Tube test: enzyme	1	Negative	0,93 %
		>>> 3	Positive	2,8 %
(3)	Column agglut.: IAT - automat	>>> 2	Positive	1,9 %
(4)	Column agglut.: enzyme - automat	>>> 20	Positive	19 %
(8)	Column agglut.: IAT - manual	>>> 7	Positive	6,5 %
(9)	Column agglut.: enzyme - manual	>>> 74	Positive	69 %
Total per sample: n = 108		Success: 99 %		
Total success: 96 %				

**(750) Antibody identification**

E1 and S1 (0)	Not specified	1	anti-Fya	1,9 %
		>>> 47	anti-Fya; anti-M	90 %
		4	anti-M	7,7 %
Total per sample: n = 52		Success: 90 %		
E2 and S2 (0)	Not specified	>	4 anti-D	7,7 %
		>>> 46	anti-D; anti-Jka	88 %
		1	anti-D; anti-Jka; anti-Cw	1,9 %
		1	anti-Jka; anti-N	1,9 %
Total per sample: n = 52		Success: 96 %		
Total success: 87 %				

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

E1 and S1 (0)	Not specified	± 1	titre 2	2,6 %
(1)	Tube + homozyg. expression	± 1	titre 2	2,6 %
(2)	Tube + heterozyg. expression	± 1	titre 4	2,6 %
		± 1	titre 16	2,6 %
(3)	Column agglut.+ homozyg. expres.	± 1	titre 0 (not measurable)	2,6 %
		± 1	titre 1	2,6 %
		± 5	titre 2	13 %
		± 1	titre 4	2,6 %
(4)	Column agglut.+ heterozyg. expres.	± 1	titre 0 (not measurable)	2,6 %
		± 10	titre 1	26 %
		± 12	titre 2	32 %
		± 2	titre 4	5,3 %
		± 1	titre 8	2,6 %
Total per sample: n = 38		Success (only evaluated results):	evaluation	

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

E1 and S1 (1)	Tube + homozyg. expression	± 1	titre 16	2,4 %
(2)	Tube + heterozyg. expression	± 1	titre 1	2,4 %
(3)	Column agglut.+ homozyg. expres.	± 2	titre 2	4,9 %
		± 8	titre 4	20 %
		± 3	titre 8	7,3 %
		± 1	titre 32	2,4 %
(4)	Column agglut.+ heterozyg. expres.	± 2	titre 0 (not measurable)	4,9 %
		± 8	titre 1	20 %
		± 7	titre 2	17 %
		± 5	titre 4	12 %
		± 3	titre 8	7,3 %
Total per sample: n = 41		Success (only evaluated results):	evaluation	

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

E2 and S2 (1)	Tube + homozyg. expression	± 1	titre 32	2,4 %
		± 1	titre 128	2,4 %
(3)	Column agglut.+ homozyg. expres.	± 1	titre 256	2,4 %
		± 1	titre 8	2,4 %
		± 3	titre 16	7,1 %

## Test

Sample	Group	N	Result	N <sub>rel</sub>
E2 and S2 (3)	Column agglut.+ homozyg. expres.	± 5	titre 32	12 %
		± 4	titre 64	9,5 %
		± 3	titre 128	7,1 %
	(4) Column agglut.+ heterozyg. expres.	± 1	titre 512	2,4 %
		± 3	titre 8	7,1 %
		± 2	titre 16	4,8 %
		± 6	titre 32	14 %
		± 4	titre 64	9,5 %
	(99) Another measurement principle	± 6	titre 128	14 %
		± 1	titre 16	2,4 %
Total per sample: n = 42		Success (only evaluated results): evaluation		

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

E2 and S2 (1)	Tube + homozyg. expression	± 1	titre 2	3,0 %
		± 1	titre 0 (not measurable)	3,0 %
	(3) Column agglut.+ homozyg. expres.	± 1	titre 0 (not measurable)	3,0 %
		± 4	titre 1	12 %
		± 8	titre 2	24 %
	(4) Column agglut.+ heterozyg. expres.	± 3	titre 0 (not measurable)	9,1 %
		± 5	titre 1	15 %
		± 7	titre 2	21 %
		± 2	titre 4	6,1 %
		± 1	titre 32	3,0 %
Total per sample: n = 33		Success (only evaluated results): evaluation		

**Set 3****(760) Crossmatch**

S1	All results	33	Crossmatch not successful	24 %
		>>> 106	Crossmatch successful	76 %
Total per sample: n = 139		Success: 76 %		
S2	All results	1	Crossmatch not successful	0,72 %
		>>> 138	Crossmatch successful	99 %
Total per sample: n = 139		Success: 99 %		
Total success: 76 %				

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

S1	(3) Column agglut.: IAT - automat	>>> 19	Positive test	14 %	
		>>> 1	Positive test	0,72 %	
	(6) Microplate: IAT	1	Negative test	0,72 %	
	(8) Column agglut.: IAT - manual	32	Negative test	23 %	
		>>> 85	Positive test	61 %	
	(9) Column agglut.: enzyme - manual	>>> 1	Positive test	0,72 %	
	Total per sample: n = 139		Success: 76 %		
	S2	(3) Column agglut.: IAT - automat	>>> 14	Negative test	10 %
			> 5	Positive test	3,6 %
		(5) Solid phase	> 1	Positive test	0,72 %
(6) Microplate: IAT		>>> 1	Negative test	0,72 %	
(8) Column agglut.: IAT - manual		>>> 99	Negative test	71 %	
		> 18	Positive test	13 %	
(9) Column agglut.: enzyme - manual	>>> 1	Negative test	0,72 %		
Total per sample: n = 139		Success: 100 %			
Total success: 76 %					

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

S1	(0) Not specified	± 109	Impossible, risk of haemolysis	78 %
		± 22	Decision depends on results of other tests not performed in our laboratory	16 %
		± 5	Only if more suitable products are not available	3,6 %
		± 3	Possible	2,2 %
Total per sample: n = 139		Success (only evaluated results): evaluation		
S2	(0) Not specified	± 58	Impossible, risk of haemolysis	42 %
		± 68	Decision depends on results of other tests not performed in our laboratory	49 %
		± 6	Only if more suitable products are not available	4,3 %
		± 7	Possible	5,0 %
		Total per sample: n = 139		Success (only evaluated results): evaluation

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

S1	(3) Column agglut.: IAT - automat	>>> 20	Positive test	14 %
		>>> 1	Positive test	0,72 %
	(8) Column agglut.: IAT - manual	5	Negative test	3,6 %
		>>> 112	Positive test	81 %



## Summary statistics - qualitative results

(Groups: measurement principle)

## EQA round: IH1/22 - Blood Group Serology

Deadline: 11.03.2022

## Test

Sample	Group	N	Result	N <sub>rel</sub>
S1	(9) Column agglut.: enzyme - manual	>>> 1	Positive test	0,72 %
----- Total per sample: n = 139 ----- Success: 96 % -----				
S2	(3) Column agglut.: IAT - automat	1	Negative test	0,72 %
		>>> 19	Positive test	14 %
	(5) Solid phase	>>> 1	Positive test	0,72 %
	(8) Column agglut.: IAT - manual	>>> 117	Positive test	84 %
	(9) Column agglut.: enzyme - manual	>>> 1	Positive test	0,72 %
----- Total per sample: n = 139 ----- Success: 99 % -----				
Total success: 96 %				

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

S1	(0) Not specified	± 133	Impossible, risk of haemolysis	96 %
		± 4	Decision depends on results of other tests not performed in our laboratory	2,9 %
		± 2	Only if more suitable products are not available	1,4 %
----- Total per sample: n = 139 ----- Success (only evaluated results): evaluation-----				
S2	(0) Not specified	± 136	Impossible, risk of haemolysis	98 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,4 %
		± 1	Possible	0,72 %
----- Total per sample: n = 139 ----- Success (only evaluated results): evaluation-----				

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End of report

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