

EQA round: IH3/23 - Blood Group Serology

Deadline: 29.9.2023

Setup: groups - measurement principle

AV = assigned value
 RV = reference value
 >>> ... expected result
 > ... acceptable result
 ± ... result not assessed

N_{tot} = total number of the results
 N_{rel} = relative number of the results

N_{eva} = number of the results assessed
 N_{suc} = number of successful results
 S_{rel} = relative success

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
Set 1 and 2								
(700) ABO blood group		165			165	165	100	
Samples E1 and S1		165			165	165	100	
(1) Tube test	RV >>>	48	29	Blood group: 0				
(2) Microplate - aut.	RV >>>	10	6,1	Blood group: 0				
(3) Microplate - man.	RV >>>	5	3	Blood group: 0				
(6) Microplate - without centrifug.	RV >>>	1	0,6	Blood group: 0				
(7) Column agglutination - automat	RV >>>	46	28	Blood group: 0				
(9) Column agglutination - manual	RV >>>	54	33	Blood group: 0				
(10) Solid phase	RV >>>	1	0,6	Blood group: 0				
Samples E2 and S2		165			165	165	100	
(1) Tube test	RV >>>	48	29	Blood group: B				
(2) Microplate - aut.	RV >>>	10	6,1	Blood group: B				
(3) Microplate - man.	RV >>>	5	3	Blood group: B				
(6) Microplate - without centrifug.	RV >>>	1	0,6	Blood group: B				
(7) Column agglutination - automat	RV >>>	46	28	Blood group: B				
(9) Column agglutination - manual	RV >>>	54	33	Blood group: B				
(10) Solid phase	RV >>>	1	0,6	Blood group: B				
(705) Rh D antigen (blood-donor)		98			98	97	99	
Samples E1 and S1		98			98	98	100	
(0) Not specified	RV >>>	1	1	Positive (RhD+)				
(1) Tube test	RV >>>	28	29	Positive (RhD+)				
(2) Microplate - aut.	RV >>>	10	10	Positive (RhD+)				
(3) Microplate - man.	RV >>>	2	2	Positive (RhD+)				
(7) Column agglutination - automat	RV >>>	28	29	Positive (RhD+)				
(9) Column agglutination - manual	RV >>>	28	29	Positive (RhD+)				
(10) Solid phase	RV >>>	1	1	Positive (RhD+)				
Samples E2 and S2		98			98	97	99	
(0) Not specified		1	1	Not specified				
(1) Tube test	RV >>>	28	29	Negative (RhD-)				
(2) Microplate - aut.	RV >>>	10	10	Negative (RhD-)				
(3) Microplate - man.	RV >>>	2	2	Negative (RhD-)				
(7) Column agglutination - automat	RV >>>	28	29	Negative (RhD-)				
(9) Column agglutination - manual	RV >>>	28	29	Negative (RhD-)				
(10) Solid phase	RV >>>	1	1	Negative (RhD-)				
(709) Rh D antigen (recipient/ pregnant/ newborn)		155			155	155	100	
Samples E1 and S1		155			155	155	100	
(1) Tube test	RV >>>	54	35	Positive (RhD+)				
(2) Microplate - aut.	RV >>>	7	4,5	Positive (RhD+)				
(3) Microplate - man.	RV >>>	2	1,3	Positive (RhD+)				
(7) Column agglutination - automat	RV >>>	40	26	Positive (RhD+)				
(9) Column agglutination - manual	RV >>>	51	33	Positive (RhD+)				
(10) Solid phase	RV >>>	1	0,6	Positive (RhD+)				
Samples E2 and S2		155			155	155	100	
(1) Tube test	RV >>>	54	35	Negative (RhD-)				
(2) Microplate - aut.	RV >>>	7	4,5	Negative (RhD-)				
(3) Microplate - man.	RV >>>	2	1,3	Negative (RhD-)				
(7) Column agglutination - automat	RV >>>	40	26	Negative (RhD-)				
(9) Column agglutination - manual	RV >>>	51	33	Negative (RhD-)				
(10) Solid phase	RV >>>	1	0,6	Negative (RhD-)				
(715) Antigen C		86			86	86	100	
Samples E1 and S1		86			86	86	100	
(1) Tube test	RV >>>	14	16	Positive				
(2) Microplate - aut.	RV >>>	5	5,8	Positive				
(3) Microplate - man.	RV >>>	1	1,2	Positive				
(7) Column agglutination - automat	RV >>>	26	30	Positive				
(9) Column agglutination - manual	RV >>>	39	45	Positive				
(10) Solid phase	RV >>>	1	1,2	Positive				
Samples E2 and S2		86			86	86	100	
(1) Tube test	RV >>>	14	16	Negative				
(2) Microplate - aut.	RV >>>	5	5,8	Negative				
(3) Microplate - man.	RV >>>	1	1,2	Negative				
(7) Column agglutination - automat	RV >>>	26	30	Negative				

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Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(9) Column agglutination - manual	RV	>>>	39	45	Negative			
(10) Solid phase	RV	>>>	1	1,2	Negative			
(716) Antigen c			86			86	86	100
Samples E1 and S1			86			86	86	100
(1) Tube test	RV	>>>	14	16	Negative			
(2) Microplate - aut.	RV	>>>	5	5,8	Negative			
(3) Microplate - man.	RV	>>>	1	1,2	Negative			
(7) Column agglutination - automat	RV	>>>	25	29	Negative			
(9) Column agglutination - manual	RV	>>>	40	47	Negative			
(10) Solid phase	RV	>>>	1	1,2	Negative			
Samples E2 and S2			86			86	86	100
(1) Tube test	RV	>>>	14	16	Positive			
(2) Microplate - aut.	RV	>>>	5	5,8	Positive			
(3) Microplate - man.	RV	>>>	1	1,2	Positive			
(7) Column agglutination - automat	RV	>>>	25	29	Positive			
(9) Column agglutination - manual	RV	>>>	40	47	Positive			
(10) Solid phase	RV	>>>	1	1,2	Positive			
(718) Antigen E			87			87	87	100
Samples E1 and S1			87			87	87	100
(1) Tube test	RV	>>>	15	17	Negative			
(2) Microplate - aut.	RV	>>>	5	5,7	Negative			
(3) Microplate - man.	RV	>>>	1	1,1	Negative			
(7) Column agglutination - automat	RV	>>>	25	29	Negative			
(9) Column agglutination - manual	RV	>>>	40	46	Negative			
(10) Solid phase	RV	>>>	1	1,1	Negative			
Samples E2 and S2			87			87	87	100
(1) Tube test	RV	>>>	15	17	Positive			
(2) Microplate - aut.	RV	>>>	5	5,7	Positive			
(3) Microplate - man.	RV	>>>	1	1,1	Positive			
(7) Column agglutination - automat	RV	>>>	25	29	Positive			
(9) Column agglutination - manual	RV	>>>	40	46	Positive			
(10) Solid phase	RV	>>>	1	1,1	Positive			
(719) Antigen e			86			86	85	99
Samples E1 and S1			86			86	86	100
(1) Tube test	RV	>>>	14	16	Positive			
(2) Microplate - aut.	RV	>>>	5	5,8	Positive			
(3) Microplate - man.	RV	>>>	1	1,2	Positive			
(7) Column agglutination - automat	RV	>>>	25	29	Positive			
(9) Column agglutination - manual	RV	>>>	40	47	Positive			
(10) Solid phase	RV	>>>	1	1,2	Positive			
Samples E2 and S2			86			86	85	99
(1) Tube test	RV	>>>	14	16	Positive			
(2) Microplate - aut.	RV	>>>	5	5,8	Positive			
(3) Microplate - man.	RV	>>>	1	1,2	Positive			
(7) Column agglutination - automat	RV	>>>	25	29	Positive			
(9) Column agglutination - manual	RV	>>>	1	1,2	Negative			
(10) Solid phase	RV	>>>	39	45	Positive			
(10) Solid phase	RV	>>>	1	1,2	Positive			
(717) Antigen C^w			74			74	74	100
Samples E1 and S1			74			74	74	100
(1) Tube test	RV	>>>	15	20	Positive			
(2) Microplate - aut.	RV	>>>	5	6,8	Positive			
(7) Column agglutination - automat	RV	>>>	22	30	Positive			
(9) Column agglutination - manual	RV	>>>	32	43	Positive			
Samples E2 and S2			74			74	74	100
(1) Tube test	RV	>>>	15	20	Negative			
(2) Microplate - aut.	RV	>>>	5	6,8	Negative			
(7) Column agglutination - automat	RV	>>>	22	30	Negative			
(9) Column agglutination - manual	RV	>>>	32	43	Negative			
(720) Antigen K			92			92	92	100
Samples E1 and S1			92			92	92	100
(1) Tube test	RV	>>>	15	16	Negative			
(2) Microplate - aut.	RV	>>>	5	5,4	Negative			
(5) Microplate reagent kit - man.	RV	>>>	1	1,1	Negative			
(7) Column agglutination - automat	RV	>>>	27	29	Negative			
(9) Column agglutination - manual	RV	>>>	43	47	Negative			
(10) Solid phase	RV	>>>	1	1,1	Negative			
Samples E2 and S2			92			92	92	100
(1) Tube test	RV	>>>	15	16	Negative			

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Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(2) Microplate - aut.	RV	>>>	5	5,4	Negative		
(5) Microplate reagent kit - man.	RV	>>>	1	1,1	Negative		
(7) Column agglutination - automat	RV	>>>	27	29	Negative		
(9) Column agglutination - manual	RV	>>>	43	47	Negative		
(10) Solid phase	RV	>>>	1	1,1	Negative		
(721) Antigen k			40			40	40 100
Samples E1 and S1			40			40	40 100
(1) Tube test	RV	>>>	21	53	Positive		
(2) Microplate - aut.	RV	>>>	1	2,5	Positive		
(7) Column agglutination - automat	RV	>>>	1	2,5	Positive		
(9) Column agglutination - manual	RV	>>>	14	35	Positive		
(10) Solid phase	RV	>>>	3	7,5	Positive		
Samples E2 and S2			40			40	40 100
(1) Tube test	RV	>>>	21	53	Positive		
(2) Microplate - aut.	RV	>>>	1	2,5	Positive		
(7) Column agglutination - automat	RV	>>>	1	2,5	Positive		
(9) Column agglutination - manual	RV	>>>	14	35	Positive		
(10) Solid phase	RV	>>>	3	7,5	Positive		
(738) Antigen Kp^a			18			18	18 100
Samples E1 and S1			18			18	18 100
(0) Not specified	RV	>>>	1	5,6	Negative		
(1) Tube test	RV	>>>	7	39	Negative		
(9) Column agglutination - manual	RV	>>>	10	56	Negative		
Samples E2 and S2			18			18	18 100
(0) Not specified	RV	>>>	1	5,6	Negative		
(1) Tube test	RV	>>>	7	39	Negative		
(9) Column agglutination - manual	RV	>>>	10	56	Negative		
(739) Antigen Kp^b			10			10	10 100
Samples E1 and S1			10			10	10 100
(1) Tube test	RV	>>>	5	50	Positive		
(9) Column agglutination - manual	RV	>>>	5	50	Positive		
Samples E2 and S2			10			10	10 100
(1) Tube test	RV	>>>	5	50	Positive		
(9) Column agglutination - manual	RV	>>>	5	50	Positive		
(729) Antigen Jk^a			43			43	42 98
Samples E1 and S1			43			43	42 98
(0) Not specified	RV	>>>	1	2,3	Positive		
(1) Tube test			1	2,3	Negative		
			15	35	Positive		
(2) Microplate - aut.	RV	>>>	2	4,7	Positive		
(7) Column agglutination - automat	RV	>>>	4	9,3	Positive		
(9) Column agglutination - manual	RV	>>>	20	47	Positive		
Samples E2 and S2			43			43	43 100
(0) Not specified	RV	>>>	1	2,3	Positive		
(1) Tube test	RV	>>>	16	37	Positive		
(2) Microplate - aut.	RV	>>>	2	4,7	Positive		
(7) Column agglutination - automat	RV	>>>	4	9,3	Positive		
(9) Column agglutination - manual	RV	>>>	20	47	Positive		
(730) Antigen Jk^b			43			43	41 95
Samples E1 and S1			43			43	41 95
(0) Not specified	RV	>>>	1	2,3	Positive		
(1) Tube test			1	2,3	Negative		
			14	33	Positive		
(2) Microplate - aut.	RV	>>>	2	4,7	Positive		
(7) Column agglutination - automat	RV	>>>	4	9,3	Positive		
(9) Column agglutination - manual			1	2,3	Negative		
	RV	>>>	20	47	Positive		
Samples E2 and S2			43			43	43 100
(0) Not specified	RV	>>>	1	2,3	Negative		
(1) Tube test	RV	>>>	15	35	Negative		
(2) Microplate - aut.	RV	>>>	2	4,7	Negative		
(7) Column agglutination - automat	RV	>>>	4	9,3	Negative		
(9) Column agglutination - manual	RV	>>>	21	49	Negative		
(727) Antigen Fy^a			43			43	43 100
Samples E1 and S1			43			43	43 100
(1) Tube test	RV	>>>	12	28	Negative		
(2) Microplate - aut.	RV	>>>	1	2,3	Negative		
(7) Column agglutination - automat	RV	>>>	5	12	Negative		
(9) Column agglutination - manual	RV	>>>	24	56	Negative		

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Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(10) Solid phase	RV	>>>	1	2,3	Negative			
Samples E2 and S2			43			43	43	100
(1) Tube test	RV	>>>	12	28	Positive			
(2) Microplate - aut.	RV	>>>	1	2,3	Positive			
(7) Column agglutination - automat	RV	>>>	5	12	Positive			
(9) Column agglutination - manual	RV	>>>	24	56	Positive			
(10) Solid phase	RV	>>>	1	2,3	Positive			
(728) Antigen Fy^b			43			43	43	100
Samples E1 and S1			43			43	43	100
(1) Tube test	RV	>>>	13	30	Positive			
(2) Microplate - aut.	RV	>>>	2	4,7	Positive			
(7) Column agglutination - automat	RV	>>>	5	12	Positive			
(9) Column agglutination - manual	RV	>>>	23	53	Positive			
Samples E2 and S2			43			43	43	100
(1) Tube test	RV	>>>	13	30	Positive			
(2) Microplate - aut.	RV	>>>	2	4,7	Positive			
(7) Column agglutination - automat	RV	>>>	5	12	Positive			
(9) Column agglutination - manual	RV	>>>	23	53	Positive			
(722) Antigen M			42			42	42	100
Samples E1 and S1			42			42	42	100
(1) Tube test	RV	>>>	18	43	Positive			
(2) Microplate - aut.	RV	>>>	2	4,8	Positive			
(7) Column agglutination - automat	RV	>>>	4	9,5	Positive			
(9) Column agglutination - manual	RV	>>>	18	43	Positive			
Samples E2 and S2			42			42	42	100
(1) Tube test	RV	>>>	18	43	Positive			
(2) Microplate - aut.	RV	>>>	2	4,8	Positive			
(7) Column agglutination - automat	RV	>>>	4	9,5	Positive			
(9) Column agglutination - manual	RV	>>>	18	43	Positive			
(723) Antigen N			40			40	40	100
Samples E1 and S1			40			40	40	100
(1) Tube test	RV	>>>	17	43	Negative			
(2) Microplate - aut.	RV	>>>	1	2,5	Negative			
(7) Column agglutination - automat	RV	>>>	4	10	Negative			
(9) Column agglutination - manual	RV	>>>	18	45	Negative			
Samples E2 and S2			40			40	40	100
(1) Tube test	RV	>>>	17	43	Positive			
(2) Microplate - aut.	RV	>>>	1	2,5	Positive			
(7) Column agglutination - automat	RV	>>>	4	10	Positive			
(9) Column agglutination - manual	RV	>>>	18	45	Positive			
(724) Antigen S			42			42	42	100
Samples E1 and S1			42			42	42	100
(1) Tube test	RV	>>>	16	38	Positive			
(2) Microplate - aut.	RV	>>>	2	4,8	Positive			
(7) Column agglutination - automat	RV	>>>	5	12	Positive			
(9) Column agglutination - manual	RV	>>>	19	45	Positive			
Samples E2 and S2			42			42	42	100
(1) Tube test	RV	>>>	16	38	Negative			
(2) Microplate - aut.	RV	>>>	2	4,8	Negative			
(7) Column agglutination - automat	RV	>>>	5	12	Negative			
(9) Column agglutination - manual	RV	>>>	19	45	Negative			
(725) Antigen s			42			42	42	100
Samples E1 and S1			42			42	42	100
(1) Tube test	RV	>>>	16	38	Positive			
(2) Microplate - aut.	RV	>>>	2	4,8	Positive			
(7) Column agglutination - automat	RV	>>>	5	12	Positive			
(9) Column agglutination - manual	RV	>>>	19	45	Positive			
Samples E2 and S2			42			42	42	100
(1) Tube test	RV	>>>	16	38	Positive			
(2) Microplate - aut.	RV	>>>	2	4,8	Positive			
(7) Column agglutination - automat	RV	>>>	5	12	Positive			
(9) Column agglutination - manual	RV	>>>	19	45	Positive			
(733) Antigen Le^a			35			35	34	97
Samples E1 and S1			35			35	34	97
(1) Tube test	RV	>>>	15	43	Negative			
(7) Column agglutination - automat	RV	>>>	3	8,6	Negative			
(9) Column agglutination - manual	RV	>>>	16	46	Negative			
			1	2,9	Positive			

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Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
Samples E2 and S2		35				35	35	100
(1) Tube test	RV >>>	15	43	Negative				
(7) Column agglutination - automat	RV >>>	3	8,6	Negative				
(9) Column agglutination - manual	RV >>>	17	49	Negative				
(734) Antigen Le^b		35			35	35	100	
Samples E1 and S1		35			35	35	100	
(1) Tube test	RV >>>	15	43	Positive				
(7) Column agglutination - automat	RV >>>	3	8,6	Positive				
(9) Column agglutination - manual	RV >>>	17	49	Positive				
Samples E2 and S2		35			35	35	100	
(1) Tube test	RV >>>	15	43	Positive				
(7) Column agglutination - automat	RV >>>	3	8,6	Positive				
(9) Column agglutination - manual	RV >>>	17	49	Positive				
(731) Antigen Lu^a		31			31	31	100	
Samples E1 and S1		31			31	31	100	
(1) Tube test	RV >>>	10	32	Negative				
(7) Column agglutination - automat	RV >>>	3	9,7	Negative				
(9) Column agglutination - manual	RV >>>	18	58	Negative				
Samples E2 and S2		31			31	31	100	
(1) Tube test	RV >>>	10	32	Negative				
(7) Column agglutination - automat	RV >>>	3	9,7	Negative				
(9) Column agglutination - manual	RV >>>	18	58	Negative				
(732) Antigen Lu^b		30			30	30	100	
Samples E1 and S1		30			30	30	100	
(1) Tube test	RV >>>	13	43	Positive				
(7) Column agglutination - automat	RV >>>	4	13	Positive				
(9) Column agglutination - manual	RV >>>	13	43	Positive				
Samples E2 and S2		30			30	30	100	
(1) Tube test	RV >>>	13	43	Positive				
(7) Column agglutination - automat	RV >>>	4	13	Positive				
(9) Column agglutination - manual	RV >>>	13	43	Positive				
(726) Antigen P1		30			30	30	100	
Samples E1 and S1		30			30	30	100	
(1) Tube test	RV >>>	17	57	Positive				
(2) Microplate - aut.	RV >>>	1	3,3	Positive				
(7) Column agglutination - automat	RV >>>	2	6,7	Positive				
(9) Column agglutination - manual	RV >>>	10	33	Positive				
Samples E2 and S2		30			30	30	100	
(1) Tube test	RV >>>	17	57	Positive				
(2) Microplate - aut.	RV >>>	1	3,3	Positive				
(7) Column agglutination - automat	RV >>>	2	6,7	Positive				
(9) Column agglutination - manual	RV >>>	10	33	Positive				
(740) Antigen Wr^a		7			7	7	100	
Samples E1 and S1		7			7	7	100	
(1) Tube test	RV >>>	3	43	Negative				
(9) Column agglutination - manual	RV >>>	4	57	Negative				
Samples E2 and S2		7			7	7	100	
(1) Tube test	RV >>>	3	43	Negative				
(9) Column agglutination - manual	RV >>>	4	57	Negative				
(737) Direct Coombs (antiglobulin) test		123			123	123	100	
Samples E1 and S1		123			123	123	100	
(1) Tube test: IAT	RV >>>	2	1,6	Negative				
(3) Column agglut.: IAT - automat	RV >>>	28	23	Negative				
(5) Solid phase	RV >>>	1	0,8	Negative				
(8) Column agglut.: IAT - manual	RV >>>	89	72	Negative				
(9) Column agglut.: enzyme - manual	RV >>>	3	2,4	Negative				
Samples E2 and S2		123			123	123	100	
(1) Tube test: IAT	RV >>>	2	1,6	Negative				
(3) Column agglut.: IAT - automat	RV >>>	28	23	Negative				
(5) Solid phase	RV >>>	1	0,8	Negative				
(8) Column agglut.: IAT - manual	RV >>>	89	72	Negative				
(9) Column agglut.: enzyme - manual	RV >>>	3	2,4	Negative				
(741) Antibody screening (IAT, blood donor)		84			84	83	99	
Samples E1 and S1		84			84	84	100	
(1) Tube test: IAT	RV >>>	1	1,2	Positive				
(3) Column agglut.: IAT - automat	RV >>>	27	32	Positive				
(5) Solid phase	RV >>>	10	12	Positive				
(6) Microplate: IAT	RV >>>	3	3,6	Positive				
(8) Column agglut.: IAT - manual	RV >>>	43	51	Positive				

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
Samples E2 and S2		84				84	83	99
(1) Tube test: IAT		1	1,2	Negative				
(3) Column agglut.: IAT - automat	RV >>>	27	32	Positive				
(5) Solid phase	RV >>>	10	12	Positive				
(6) Microplate: IAT	RV >>>	3	3,6	Positive				
(8) Column agglut.: IAT - manual	RV >>>	43	51	Positive				
(743) Antibody screening (IAT, recipient)		144			144	144	100	
Samples E1 and S1		144			144	144	100	
(3) Column agglut.: IAT - automat	RV >>>	43	30	Positive				
(4) Column agglut.: enzyme - automat	RV >>>	1	0,7	Positive				
(5) Solid phase	RV >>>	3	2,1	Positive				
(6) Microplate: IAT	RV >>>	1	0,7	Positive				
(8) Column agglut.: IAT - manual	RV >>>	95	66	Positive				
(9) Column agglut.: enzyme - manual	RV >>>	1	0,7	Positive				
Samples E2 and S2		144			144	144	100	
(3) Column agglut.: IAT - automat	RV >>>	43	30	Positive				
(4) Column agglut.: enzyme - automat	RV >>>	1	0,7	Positive				
(5) Solid phase	RV >>>	3	2,1	Positive				
(6) Microplate: IAT	RV >>>	1	0,7	Positive				
(8) Column agglut.: IAT - manual	RV >>>	95	66	Positive				
(9) Column agglut.: enzyme - manual	RV >>>	1	0,7	Positive				
(745) Antibody screening (IAT, pregnant)		119			119	119	100	
Samples E1 and S1		119			119	119	100	
(0) Not specified	RV >>>	1	0,8	Positive				
(1) Tube test: IAT	RV >>>	1	0,8	Positive				
(3) Column agglut.: IAT - automat	RV >>>	39	33	Positive				
(4) Column agglut.: enzyme - automat	RV >>>	1	0,8	Positive				
(5) Solid phase	RV >>>	4	3,4	Positive				
(8) Column agglut.: IAT - manual	RV >>>	73	61	Positive				
Samples E2 and S2		119			119	119	100	
(0) Not specified	RV >>>	1	0,8	Positive				
(1) Tube test: IAT	RV >>>	1	0,8	Positive				
(3) Column agglut.: IAT - automat	RV >>>	39	33	Positive				
(4) Column agglut.: enzyme - automat	RV >>>	1	0,8	Positive				
(5) Solid phase	RV >>>	4	3,4	Positive				
(8) Column agglut.: IAT - manual	RV >>>	73	61	Positive				
(747) Antibody screening (enzyme test)		90			90	90	100	
Samples E1 and S1		90			90	90	100	
(2) Tube test: enzyme	RV >>>	2	2,2	Negative				
(3) Column agglut.: IAT - automat	RV >>>	1	1,1	Negative				
(4) Column agglut.: enzyme - automat	RV >>>	22	24	Negative				
	RV >>>	1	1,1	Positive				
(8) Column agglut.: IAT - manual	RV >>>	5	5,6	Negative				
	RV >>>	1	1,1	Positive				
(9) Column agglut.: enzyme - manual	RV >>>	57	63	Negative				
	RV >>>	1	1,1	Positive				
Samples E2 and S2		90			90	90	100	
(2) Tube test: enzyme	RV >>>	2	2,2	Negative				
(3) Column agglut.: IAT - automat	RV >>>	1	1,1	Negative				
(4) Column agglut.: enzyme - automat	RV >>>	22	24	Negative				
	RV >>>	1	1,1	Positive				
(8) Column agglut.: IAT - manual	RV >>>	4	4,4	Negative				
	RV >>>	2	2,2	Positive				
(9) Column agglut.: enzyme - manual	RV >>>	56	62	Negative				
	RV >>>	2	2,2	Positive				
(750) Antibody identification		49			49	49	100	
Samples E1 and S1		49			49	49	100	
(0) Not specified	RV >>>	43	88	anti-Fya				
	RV >>>	6	12	anti-Fya; anti-Lua				
Samples E2 and S2		49			49	49	100	
(0) Not specified	RV >>>	49	100	anti-S				
(752) Antibody titre, Sample 1: 1st antibody		39			0			
Samples E1 and S1		39			0			
(1) Tube + homozyg. expression	±	2	5,1	titre 16				
(2) Tube + heterozyg. expression	±	3	7,7	titre 16				
(3) Column agglut.+ homozyg. expres.	±	3	7,7	titre 8				
	±	3	7,7	titre 16				
	±	6	15	titre 32				
	±	2	5,1	titre 64				

EQA round: IH3/23 - Blood Group Serology

Deadline: 29.9.2023

Setup: groups - measurement principle

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(4) Column agglut.+ heterozyg. expres.	±	6	15	titre 8			
	±	10	26	titre 16			
	±	4	10	titre 32			
(753) Antibody titre, Sample 1: 2nd antibody Samples E1 and S1		4				0	
		4				0	
(3) Column agglut.+ homozyg. expres.	±	1	25	titre 0 (not measurable)			
	±	1	25	titre 1			
(4) Column agglut.+ heterozyg. expres.	±	1	25	titre 0 (not measurable)			
	±	1	25	titre 1			
(756) Antibody titre, Sample 2: 1st antibody Samples E2 and S2		38				0	
		38				0	
(1) Tube + homozyg. expression	±	2	5,3	titre 2			
	±	1	2,6	titre 4			
(3) Column agglut.+ homozyg. expres.	±	4	11	titre 2			
	±	5	13	titre 4			
	±	6	16	titre 8			
(4) Column agglut.+ heterozyg. expres.	±	1	2,6	titre 1			
	±	9	24	titre 2			
	±	9	24	titre 4			
	±	1	2,6	titre 8			
Set 3							
(760) Crossmatch Sample S1		115				115	115 100
		115				115	115 100
All results	RV >>>	115	100	Crossmatch successful			
Sample S2		115				115	115 100
All results	RV >>>	115	100	Crossmatch successful			
(761) Crossmatch (segment K1) Sample S1		115				115	115 100
		115				115	115 100
(3) Column agglut.: IAT - automat	RV >>>	26	23	Positive test			
(5) Solid phase	RV >>>	2	1,7	Positive test			
(8) Column agglut.: IAT - manual	RV >>>	86	75	Positive test			
(9) Column agglut.: enzyme - manual	RV >>>	1	0,9	Positive test			
Sample S2		115				115	115 100
(3) Column agglut.: IAT - automat	RV >>>	26	23	Positive test			
(5) Solid phase	RV >>>	2	1,7	Positive test			
(8) Column agglut.: IAT - manual	RV >>>	86	75	Positive test			
(9) Column agglut.: enzyme - manual	RV >>>	1	0,9	Positive test			
(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode) Sample S1		115				0	
		115				0	
(0) Not specified	±	114	99	Impossible, risk of haemolysis			
	±	1	0,9	Decision depends on results of other tests not performed in our laboratory			
Sample S2		115				0	
(0) Not specified	±	115	100	Impossible, risk of haemolysis			
(764) Crossmatch (segment K2) Sample S1		115				115	115 100
		115				115	115 100
(3) Column agglut.: IAT - automat	RV >>>	28	24	Positive test			
(5) Solid phase	RV >>>	2	1,7	Positive test			
(8) Column agglut.: IAT - manual	RV >>>	84	73	Positive test			
(9) Column agglut.: enzyme - manual	RV >>>	1	0,9	Positive test			
Sample S2		115				115	115 100
(3) Column agglut.: IAT - automat	RV >>>	28	24	Negative test			
(5) Solid phase	RV >>>	2	1,7	Negative test			
(8) Column agglut.: IAT - manual	RV >>>	84	73	Negative test			
(9) Column agglut.: enzyme - manual	RV >>>	1	0,9	Negative test			
(765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode) Sample S1		114				0	
		114				0	
(0) Not specified	±	113	99	Impossible, risk of haemolysis			
	±	1	0,9	Decision depends on results of other tests not performed in our laboratory			
Sample S2		114				0	
(0) Not specified	±	3	2,6	Impossible, risk of haemolysis			
	±	50	44	Decision depends on results of other tests not performed in our laboratory			
	±	18	16	Only if more suitable products are not available			
	±	43	38	Possible			