

EQA round: IH1/24 - Blood Group Serology

Deadline: 8.3.2024

Setup: groups - M (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		183			183	183	100	
Samples E1 and S1		183			183	183	100	
(1) Tube test	RV >>>	48	26	Blood group: A				
(2) Microplate - aut.	RV >>>	7	3,8	Blood group: A				
(3) Microplate - man.	RV >>>	5	2,7	Blood group: A				
(6) Microplate - without centrifug.	RV >>>	1	0,5	Blood group: A				
(7) Column agglutination - automat	RV >>>	53	29	Blood group: A				
(9) Column agglutination - manual	RV >>>	68	37	Blood group: A				
(10) Solid phase	RV >>>	1	0,5	Blood group: A				
Samples E2 and S2		183			183	183	100	
(1) Tube test	RV >>>	48	26	Blood group: 0				
(2) Microplate - aut.	RV >>>	7	3,8	Blood group: 0				
(3) Microplate - man.	RV >>>	5	2,7	Blood group: 0				
(6) Microplate - without centrifug.	RV >>>	1	0,5	Blood group: 0				
(7) Column agglutination - automat	RV >>>	53	29	Blood group: 0				
(9) Column agglutination - manual	RV >>>	68	37	Blood group: 0				
(10) Solid phase	RV >>>	1	0,5	Blood group: 0				
(703) A subgroup		45			45	45	100	
Samples E1 and S1		45			45	45	100	
(0) Not specified	RV >>>	45	100	A subgroup A1				
Samples E2 and S2		45			45	45	100	
(0) Not specified	RV >>>	45	100	Not specified				
(705) Rh D antigen (blood-donor)		105			105	74	70	
Samples E1 and S1		105			105	105	100	
(0) Not specified	RV >>>	2	1,9	Positive (RhD+)				
(1) Tube test	RV >>>	31	30	Positive (RhD+)				
(2) Microplate - aut.	RV >>>	7	6,7	Positive (RhD+)				
(3) Microplate - man.	RV >>>	2	1,9	Positive (RhD+)				
(7) Column agglutination - automat	RV >>>	31	30	Positive (RhD+)				
(9) Column agglutination - manual	RV >>>	31	30	Positive (RhD+)				
(10) Solid phase	RV >>>	1	1	Positive (RhD+)				
Samples E2 and S2		105			105	74	70	
(0) Not specified		1	1	Not specified				
		1	1	Negative (RhD-)				
(1) Tube test		8	7,6	Negative (RhD-)				
	>	7	6,7	Positive (RhD+)				
	RV >>>	16	15	w/v (RhD weak/variant)				
(2) Microplate - aut.		1	1	Negative (RhD-)				
	RV >>>	6	5,7	w/v (RhD weak/variant)				
(3) Microplate - man.		>	1	Positive (RhD+)				
	RV >>>	1	1	w/v (RhD weak/variant)				
(7) Column agglutination - automat		9	8,6	Negative (RhD-)				
	>	3	2,9	Positive (RhD+)				
	RV >>>	19	18	w/v (RhD weak/variant)				
(9) Column agglutination - manual		11	10	Negative (RhD-)				
	>	9	8,6	Positive (RhD+)				
	RV >>>	11	10	w/v (RhD weak/variant)				
(10) Solid phase	RV >>>	1	1	w/v (RhD weak/variant)				
(709) Rh D antigen (recipient/ pregnant/ newborn)		175			175	173	99	
Samples E1 and S1		175			175	175	100	
(1) Tube test	RV >>>	55	31	Positive (RhD+)				
(2) Microplate - aut.	RV >>>	4	2,3	Positive (RhD+)				
(3) Microplate - man.	RV >>>	3	1,7	Positive (RhD+)				
(7) Column agglutination - automat	RV >>>	47	27	Positive (RhD+)				
(9) Column agglutination - manual	RV >>>	65	37	Positive (RhD+)				
(10) Solid phase	RV >>>	1	0,6	Positive (RhD+)				
Samples E2 and S2		175			175	173	99	
(1) Tube test	RV >>>	49	28	Negative (RhD-)				
	RV >>>	6	3,4	w/v (RhD weak/variant)				
(2) Microplate - aut.	RV >>>	3	1,7	Negative (RhD-)				
	RV >>>	1	0,6	w/v (RhD weak/variant)				
(3) Microplate - man.	RV >>>	3	1,7	Negative (RhD-)				

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Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(7) Column agglutination - automat	RV >>>	43	25	Negative (RhD-)				
	RV >>>	4	2,3	w/v (RhD weak/variant)				
(9) Column agglutination - manual	RV >>>	56	32	Negative (RhD-)				
		2	1,1	Positive (RhD+)				
	RV >>>	7	4	w/v (RhD weak/variant)				
(10) Solid phase	RV >>>	1	0,6	Negative (RhD-)				
(715) Antigen C		94			94	94	100	
Samples E1 and S1		94			94	94	100	
(1) Tube test	RV >>>	15	16	Positive				
(2) Microplate - aut.	RV >>>	4	4,3	Positive				
(7) Column agglutination - automat	RV >>>	26	28	Positive				
(9) Column agglutination - manual	RV >>>	48	51	Positive				
(10) Solid phase	RV >>>	1	1,1	Positive				
Samples E2 and S2		94			94	94	100	
(1) Tube test	RV >>>	15	16	Positive				
(2) Microplate - aut.	RV >>>	4	4,3	Positive				
(7) Column agglutination - automat	RV >>>	26	28	Positive				
(9) Column agglutination - manual	RV >>>	48	51	Positive				
(10) Solid phase	RV >>>	1	1,1	Positive				
(716) Antigen c		94			94	94	100	
Samples E1 and S1		94			94	94	100	
(1) Tube test	RV >>>	15	16	Positive				
(2) Microplate - aut.	RV >>>	4	4,3	Positive				
(7) Column agglutination - automat	RV >>>	25	27	Positive				
(9) Column agglutination - manual	RV >>>	49	52	Positive				
(10) Solid phase	RV >>>	1	1,1	Positive				
Samples E2 and S2		94			94	94	100	
(1) Tube test	RV >>>	15	16	Positive				
(2) Microplate - aut.	RV >>>	4	4,3	Positive				
(7) Column agglutination - automat	RV >>>	25	27	Positive				
(9) Column agglutination - manual	RV >>>	49	52	Positive				
(10) Solid phase	RV >>>	1	1,1	Positive				
(718) Antigen E		95			95	95	100	
Samples E1 and S1		95			95	95	100	
(1) Tube test	RV >>>	16	17	Negative				
(2) Microplate - aut.	RV >>>	4	4,2	Negative				
(7) Column agglutination - automat	RV >>>	25	26	Negative				
(9) Column agglutination - manual	RV >>>	49	52	Negative				
(10) Solid phase	RV >>>	1	1,1	Negative				
Samples E2 and S2		95			95	95	100	
(1) Tube test	RV >>>	16	17	Negative				
(2) Microplate - aut.	RV >>>	4	4,2	Negative				
(7) Column agglutination - automat	RV >>>	25	26	Negative				
(9) Column agglutination - manual	RV >>>	49	52	Negative				
(10) Solid phase	RV >>>	1	1,1	Negative				
(719) Antigen e		94			94	94	100	
Samples E1 and S1		94			94	94	100	
(1) Tube test	RV >>>	15	16	Positive				
(2) Microplate - aut.	RV >>>	4	4,3	Positive				
(7) Column agglutination - automat	RV >>>	25	27	Positive				
(9) Column agglutination - manual	RV >>>	49	52	Positive				
(10) Solid phase	RV >>>	1	1,1	Positive				
Samples E2 and S2		94			94	94	100	
(1) Tube test	RV >>>	15	16	Positive				
(2) Microplate - aut.	RV >>>	4	4,3	Positive				
(7) Column agglutination - automat	RV >>>	25	27	Positive				
(9) Column agglutination - manual	RV >>>	49	52	Positive				
(10) Solid phase	RV >>>	1	1,1	Positive				
(717) Antigen C^w		79			79	79	100	
Samples E1 and S1		79			79	79	100	
(1) Tube test	RV >>>	15	19	Negative				
(2) Microplate - aut.	RV >>>	4	5,1	Negative				
(7) Column agglutination - automat	RV >>>	22	28	Negative				
(9) Column agglutination - manual	RV >>>	38	48	Negative				
Samples E2 and S2		79			79	79	100	
(1) Tube test	RV >>>	15	19	Negative				
(2) Microplate - aut.	RV >>>	4	5,1	Negative				
(7) Column agglutination - automat	RV >>>	22	28	Negative				
(9) Column agglutination - manual	RV >>>	38	48	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} [%]	
(720) Antigen K		103			103	103	100	
Samples E1 and S1		103			103	103	100	
(1) Tube test	RV >>>	17	17	Negative				
(2) Microplate - aut.	RV >>>	4	3,9	Negative				
(5) Microplate reagent kit - man.	RV >>>	1	1	Negative				
(7) Column agglutination - automat	RV >>>	27	26	Negative				
(9) Column agglutination - manual	RV >>>	53	51	Negative				
(10) Solid phase	RV >>>	1	1	Negative				
Samples E2 and S2		103			103	103	100	
(1) Tube test	RV >>>	17	17	Negative				
(2) Microplate - aut.	RV >>>	4	3,9	Negative				
(5) Microplate reagent kit - man.	RV >>>	1	1	Negative				
(7) Column agglutination - automat	RV >>>	27	26	Negative				
(9) Column agglutination - manual	RV >>>	53	51	Negative				
(10) Solid phase	RV >>>	1	1	Negative				
(721) Antigen k		40			40	40	100	
Samples E1 and S1		40			40	40	100	
(1) Tube test	RV >>>	20	50	Positive				
(9) Column agglutination - manual	RV >>>	16	40	Positive				
(10) Solid phase	RV >>>	4	10	Positive				
Samples E2 and S2		40			40	40	100	
(1) Tube test	RV >>>	20	50	Positive				
(9) Column agglutination - manual	RV >>>	16	40	Positive				
(10) Solid phase	RV >>>	4	10	Positive				
(738) Antigen Kp^a		18			18	17	94	
Samples E1 and S1		18			18	17	94	
(1) Tube test	RV >>>	6	33	Negative				
		1	5,6	Positive				
(9) Column agglutination - manual	RV >>>	11	61	Negative				
Samples E2 and S2		18			18	17	94	
(1) Tube test	RV >>>	6	33	Negative				
		1	5,6	Positive				
(9) Column agglutination - manual	RV >>>	11	61	Negative				
(739) Antigen Kp^b		12			12	11	92	
Samples E1 and S1		12			12	11	92	
(1) Tube test		1	8,3	Negative				
	RV >>>	4	33	Positive				
(9) Column agglutination - manual	RV >>>	7	58	Positive				
Samples E2 and S2		12			12	11	92	
(1) Tube test		1	8,3	Negative				
	RV >>>	4	33	Positive				
(9) Column agglutination - manual	RV >>>	7	58	Positive				
(729) Antigen Jk^a		47			47	47	100	
Samples E1 and S1		47			47	47	100	
(1) Tube test	RV >>>	17	36	Negative				
(2) Microplate - aut.	RV >>>	2	4,3	Negative				
(7) Column agglutination - automat	RV >>>	4	8,5	Negative				
(9) Column agglutination - manual	RV >>>	24	51	Negative				
Samples E2 and S2		47			47	47	100	
(1) Tube test	RV >>>	17	36	Positive				
(2) Microplate - aut.	RV >>>	2	4,3	Positive				
(7) Column agglutination - automat	RV >>>	4	8,5	Positive				
(9) Column agglutination - manual	RV >>>	24	51	Positive				
(730) Antigen Jk^b		47			47	47	100	
Samples E1 and S1		47			47	47	100	
(1) Tube test	RV >>>	16	34	Positive				
(2) Microplate - aut.	RV >>>	2	4,3	Positive				
(7) Column agglutination - automat	RV >>>	4	8,5	Positive				
(9) Column agglutination - manual	RV >>>	25	53	Positive				
Samples E2 and S2		47			47	47	100	
(1) Tube test	RV >>>	16	34	Negative				
(2) Microplate - aut.	RV >>>	2	4,3	Negative				
(7) Column agglutination - automat	RV >>>	4	8,5	Negative				
(9) Column agglutination - manual	RV >>>	25	53	Negative				
(727) Antigen Fy^a		47			47	46	98	
Samples E1 and S1		47			47	47	100	
(0) Not specified	RV >>>	1	2,1	Positive				
(1) Tube test	RV >>>	11	23	Positive				
(7) Column agglutination - automat	RV >>>	4	8,5	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} [%]	
(9) Column agglutination - manual	RV >>>	29	62	Positive				
(10) Solid phase	RV >>>	2	4,3	Positive				
Samples E2 and S2		47			47	46	98	
(0) Not specified	RV >>>	1	2,1	Positive				
(1) Tube test		1	2,1	Negative				
	RV >>>	10	21	Positive				
(7) Column agglutination - automat	RV >>>	4	8,5	Positive				
(9) Column agglutination - manual	RV >>>	29	62	Positive				
(10) Solid phase	RV >>>	2	4,3	Positive				
(728) Antigen Fy^b		47			47	47	100	
Samples E1 and S1		47			47	47	100	
(0) Not specified	RV >>>	1	2,1	Negative				
(1) Tube test	RV >>>	12	26	Negative				
(2) Microplate - aut.	RV >>>	2	4,3	Negative				
(7) Column agglutination - automat	RV >>>	4	8,5	Negative				
(9) Column agglutination - manual	RV >>>	28	60	Negative				
Samples E2 and S2		47			47	47	100	
(0) Not specified	RV >>>	1	2,1	Positive				
(1) Tube test	RV >>>	12	26	Positive				
(2) Microplate - aut.	RV >>>	2	4,3	Positive				
(7) Column agglutination - automat	RV >>>	4	8,5	Positive				
(9) Column agglutination - manual	RV >>>	28	60	Positive				
(722) Antigen M		46			46	46	100	
Samples E1 and S1		46			46	46	100	
(1) Tube test	RV >>>	21	46	Positive				
(2) Microplate - aut.	RV >>>	1	2,2	Positive				
(7) Column agglutination - automat	RV >>>	4	8,7	Positive				
(9) Column agglutination - manual	RV >>>	20	43	Positive				
Samples E2 and S2		46			46	46	100	
(1) Tube test	RV >>>	21	46	Positive				
(2) Microplate - aut.	RV >>>	1	2,2	Positive				
(7) Column agglutination - automat	RV >>>	4	8,7	Positive				
(9) Column agglutination - manual	RV >>>	20	43	Positive				
(723) Antigen N		44			44	42	95	
Samples E1 and S1		44			44	43	98	
(1) Tube test	RV >>>	20	45	Positive				
(7) Column agglutination - automat	RV >>>	4	9,1	Positive				
(9) Column agglutination - manual		1	2,3	Negative				
	RV >>>	19	43	Positive				
Samples E2 and S2		44			44	43	98	
(1) Tube test	RV >>>	19	43	Negative				
		1	2,3	Positive				
(7) Column agglutination - automat	RV >>>	4	9,1	Negative				
(9) Column agglutination - manual	RV >>>	20	45	Negative				
(724) Antigen S		47			47	47	100	
Samples E1 and S1		47			47	47	100	
(1) Tube test	RV >>>	18	38	Positive				
(2) Microplate - aut.	RV >>>	3	6,4	Positive				
(7) Column agglutination - automat	RV >>>	4	8,5	Positive				
(9) Column agglutination - manual	RV >>>	22	47	Positive				
Samples E2 and S2		47			47	47	100	
(1) Tube test	RV >>>	18	38	Positive				
(2) Microplate - aut.	RV >>>	3	6,4	Positive				
(7) Column agglutination - automat	RV >>>	4	8,5	Positive				
(9) Column agglutination - manual	RV >>>	22	47	Positive				
(725) Antigen s		46			46	46	100	
Samples E1 and S1		46			46	46	100	
(1) Tube test	RV >>>	18	39	Positive				
(2) Microplate - aut.	RV >>>	2	4,3	Positive				
(7) Column agglutination - automat	RV >>>	4	8,7	Positive				
(9) Column agglutination - manual	RV >>>	22	48	Positive				
Samples E2 and S2		46			46	46	100	
(1) Tube test	RV >>>	18	39	Negative				
(2) Microplate - aut.	RV >>>	2	4,3	Negative				
(7) Column agglutination - automat	RV >>>	4	8,7	Negative				
(9) Column agglutination - manual	RV >>>	22	48	Negative				
(733) Antigen Le^a		39			39	39	100	
Samples E1 and S1		39			39	39	100	
(1) Tube test	RV >>>	18	46	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} [%]	
(7) Column agglutination - automat	RV	>>>	3	7,7	Negative			
(9) Column agglutination - manual	RV	>>>	18	46	Negative			
Samples E2 and S2			39			39	39	100
(1) Tube test	RV	>>>	18	46	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,7	Positive			
(9) Column agglutination - manual	RV	>>>	18	46	Positive			
(734) Antigen Le^b			39			39	38	97
Samples E1 and S1			39			39	38	97
(0) Not specified	RV	>>>	1	2,6	Positive			
(1) Tube test			1	2,6	Negative			
	RV	>>>	17	44	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,7	Positive			
(9) Column agglutination - manual	RV	>>>	17	44	Positive			
Samples E2 and S2			39			39	39	100
(0) Not specified	RV	>>>	1	2,6	Negative			
(1) Tube test	RV	>>>	18	46	Negative			
(7) Column agglutination - automat	RV	>>>	3	7,7	Negative			
(9) Column agglutination - manual	RV	>>>	17	44	Negative			
(731) Antigen Lu^a			32			32	31	97
Samples E1 and S1			32			32	31	97
(1) Tube test	RV	>>>	9	28	Negative			
(7) Column agglutination - automat	RV	>>>	2	6,3	Negative			
			1	3,1	Positive			
(9) Column agglutination - manual	RV	>>>	20	63	Negative			
Samples E2 and S2			32			32	31	97
(1) Tube test	RV	>>>	9	28	Negative			
(7) Column agglutination - automat	RV	>>>	2	6,3	Negative			
			1	3,1	Positive			
(9) Column agglutination - manual	RV	>>>	20	63	Negative			
(732) Antigen Lu^b			30			30	30	100
Samples E1 and S1			30			30	30	100
(1) Tube test	RV	>>>	10	33	Positive			
(7) Column agglutination - automat	RV	>>>	4	13	Positive			
(9) Column agglutination - manual	RV	>>>	16	53	Positive			
Samples E2 and S2			30			30	30	100
(1) Tube test	RV	>>>	10	33	Positive			
(7) Column agglutination - automat	RV	>>>	4	13	Positive			
(9) Column agglutination - manual	RV	>>>	16	53	Positive			
(726) Antigen P1			32			32	31	97
Samples E1 and S1			32			32	32	100
(1) Tube test	RV	>>>	19	59	Negative			
(7) Column agglutination - automat	RV	>>>	2	6,3	Negative			
(9) Column agglutination - manual	RV	>>>	11	34	Negative			
Samples E2 and S2			32			32	31	97
(1) Tube test			1	3,1	Negative			
	RV	>>>	18	56	Positive			
(7) Column agglutination - automat	RV	>>>	2	6,3	Positive			
(9) Column agglutination - manual	RV	>>>	11	34	Positive			
(740) Antigen Wr^a			9			9	8	89
Samples E1 and S1			9			9	9	100
(1) Tube test	RV	>>>	5	56	Negative			
(9) Column agglutination - manual	RV	>>>	4	44	Negative			
Samples E2 and S2			9			9	8	89
(1) Tube test			1	11	Not specified			
	RV	>>>	4	44	Negative			
(9) Column agglutination - manual	RV	>>>	4	44	Negative			
(737) Direct Coombs (antiglobulin) test			140			140	140	100
Samples E1 and S1			140			140	140	100
(1) Tube test: IAT	RV	>>>	3	2,1	Negative			
(3) Column agglut.: IAT - automat	RV	>>>	35	25	Negative			
(8) Column agglut.: IAT - manual	RV	>>>	99	71	Negative			
(9) Column agglut.: enzyme - manual	RV	>>>	3	2,1	Negative			
Samples E2 and S2			140			140	140	100
(1) Tube test: IAT	RV	>>>	3	2,1	Negative			
(3) Column agglut.: IAT - automat	RV	>>>	35	25	Negative			
(8) Column agglut.: IAT - manual	RV	>>>	99	71	Negative			
(9) Column agglut.: enzyme - manual	RV	>>>	3	2,1	Negative			

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Setup: groups - M (measurement principle)

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(741) Antibody screening (IAT, blood donor)		90			90	82	91	
Samples E1 and S1		90			90	82	91	
(0) Not specified	RV >>>	1	1,1	Positive				
(1) Tube test: IAT	RV >>>	2	2,2	Positive				
(3) Column agglut.: IAT - automat		3	3,3	Negative				
	RV >>>	28	31	Positive				
(5) Solid phase	RV >>>	8	8,9	Positive				
(6) Microplate: IAT	RV >>>	3	3,3	Positive				
(8) Column agglut.: IAT - manual		5	5,6	Negative				
	RV >>>	40	44	Positive				
Samples E2 and S2		90			90	90	100	
(0) Not specified	RV >>>	1	1,1	Positive				
(1) Tube test: IAT	RV >>>	2	2,2	Positive				
(3) Column agglut.: IAT - automat	RV >>>	31	34	Positive				
(5) Solid phase	RV >>>	8	8,9	Positive				
(6) Microplate: IAT	RV >>>	3	3,3	Positive				
(8) Column agglut.: IAT - manual	RV >>>	45	50	Positive				
(743) Antibody screening (IAT, recipient)		161			161	154	96	
Samples E1 and S1		161			161	155	96	
(3) Column agglut.: IAT - automat		2	1,2	Negative				
	RV >>>	44	27	Positive				
(4) Column agglut.: enzyme - automat	RV >>>	1	0,6	Positive				
(6) Microplate: IAT	RV >>>	1	0,6	Positive				
(8) Column agglut.: IAT - manual		4	2,5	Negative				
	RV >>>	108	67	Positive				
(9) Column agglut.: enzyme - manual	RV >>>	1	0,6	Positive				
Samples E2 and S2		161			161	160	99	
(3) Column agglut.: IAT - automat	RV >>>	46	29	Positive				
(4) Column agglut.: enzyme - automat	RV >>>	1	0,6	Positive				
(6) Microplate: IAT	RV >>>	1	0,6	Positive				
(8) Column agglut.: IAT - manual		1	0,6	Negative				
	RV >>>	111	69	Positive				
(9) Column agglut.: enzyme - manual	RV >>>	1	0,6	Positive				
(745) Antibody screening (IAT, pregnant)		133			133	126	95	
Samples E1 and S1		133			133	127	95	
(1) Tube test: IAT	RV >>>	1	0,8	Positive				
(3) Column agglut.: IAT - automat		2	1,5	Negative				
	RV >>>	41	31	Positive				
(4) Column agglut.: enzyme - automat	RV >>>	1	0,8	Positive				
(5) Solid phase	RV >>>	1	0,8	Positive				
(8) Column agglut.: IAT - manual		4	3	Negative				
	RV >>>	83	62	Positive				
Samples E2 and S2		133			133	132	99	
(1) Tube test: IAT	RV >>>	1	0,8	Positive				
(3) Column agglut.: IAT - automat	RV >>>	43	32	Positive				
(4) Column agglut.: enzyme - automat	RV >>>	1	0,8	Positive				
(5) Solid phase	RV >>>	1	0,8	Positive				
(8) Column agglut.: IAT - manual		1	0,8	Negative				
	RV >>>	86	65	Positive				
(747) Antibody screening (enzyme test)		102			102	101	99	
Samples E1 and S1		102			102	102	100	
(2) Tube test: enzyme	RV >>>	2	2	Positive				
(3) Column agglut.: IAT - automat	RV >>>	1	1	Positive				
(4) Column agglut.: enzyme - automat	RV >>>	26	25	Positive				
(8) Column agglut.: IAT - manual	RV >>>	5	4,9	Positive				
(9) Column agglut.: enzyme - manual	RV >>>	68	67	Positive				
Samples E2 and S2		102			102	101	99	
(2) Tube test: enzyme		1	1	Negative				
	RV >>>	1	1	Positive				
(3) Column agglut.: IAT - automat	RV >>>	1	1	Positive				
(4) Column agglut.: enzyme - automat	RV >>>	26	25	Positive				
(8) Column agglut.: IAT - manual	RV >>>	5	4,9	Positive				
(9) Column agglut.: enzyme - manual	RV >>>	68	67	Positive				
(750) Antibody identification		48			48	39	81	
Samples E1 and S1		48			48	41	85	
(0) Not specified		5	10	anti-Jka				
	RV >>>	41	85	anti-Jka; anti-E				
		1	2,1	anti-Jka; anti-E; anti-Wra				
		1	2,1	anti-Jka; anti-P1				

EQA round: IH1/24 - Blood Group Serology

Deadline: 8.3.2024

Setup: groups - M (measurement principle)

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
Samples E2 and S2		48			48	41	85
(0) Not specified		7	15	anti-K			
	RV >>>	41	85	anti-K; anti-E			
(752) Antibody titre, Sample 1: 1st antibody		39			0		
Samples E1 and S1		39			0		
(1) Tube + homozyg. expression	±	2	5,1	titre 1			
	±	1	2,6	titre 2			
(2) Tube + heterozyg. expression	±	1	2,6	titre 2			
(3) Column agglut.+ homozyg. expres.	±	3	7,7	titre 2			
	±	3	7,7	titre 4			
	±	2	5,1	titre 8			
	±	1	2,6	titre 16			
(4) Column agglut.+ heterozyg. expres.	±	4	10	titre 0 (not measurable)			
	±	3	7,7	titre 1			
	±	13	33	titre 2			
	±	4	10	titre 4			
	±	2	5,1	titre 8			
(753) Antibody titre, Sample 1: 2nd antibody		19			0		
Samples E1 and S1		19			0		
(1) Tube + homozyg. expression	±	1	5,3	titre 0 (not measurable)			
	±	1	5,3	titre 1			
	±	1	5,3	titre 4			
(3) Column agglut.+ homozyg. expres.	±	3	16	titre 1			
	±	4	21	titre 2			
	±	1	5,3	titre 4			
	±	1	5,3	titre 8			
(4) Column agglut.+ heterozyg. expres.	±	4	21	titre 0 (not measurable)			
	±	1	5,3	titre 1			
	±	1	5,3	titre 2			
	±	1	5,3	titre 8			
(756) Antibody titre, Sample 2: 1st antibody		40			0		
Samples E2 and S2		40			0		
(2) Tube + heterozyg. expression	±	1	2,5	titre 128			
	±	1	2,5	titre 256			
	±	1	2,5	titre 512			
(3) Column agglut.+ homozyg. expres.	±	1	2,5	titre 2			
	±	1	2,5	titre 32			
	±	2	5	titre 128			
(4) Column agglut.+ heterozyg. expres.	±	1	2,5	titre 32			
	±	7	18	titre 64			
	±	19	48	titre 128			
	±	5	13	titre 256			
	±	1	2,5	titre 512			
(757) Antibody titre, Sample 2: 2nd antibody		14			0		
Samples E2 and S2		14			0		
(1) Tube + homozyg. expression	±	1	7,1	titre 2			
(2) Tube + heterozyg. expression	±	1	7,1	titre 0 (not measurable)			
(3) Column agglut.+ homozyg. expres.	±	1	7,1	titre 0 (not measurable)			
	±	1	7,1	titre 1			
	±	2	14	titre 2			
	±	1	7,1	titre 4			
(4) Column agglut.+ heterozyg. expres.	±	3	21	titre 0 (not measurable)			
	±	3	21	titre 1			
	±	1	7,1	titre 2			
Set 3							
(761) Crossmatch (segment K1)		130			130	130	100
Sample S1		130			130	130	100
(3) Column agglut.: IAT - automat		5	3,8	Negative test			
	RV >>>	27	21	Positive test			
(8) Column agglut.: IAT - manual		8	6,2	Negative test			
	RV >>>	89	68	Positive test			
(9) Column agglut.: enzyme - manual		1	0,8	Negative test			
Sample S2		130			130	130	100
(3) Column agglut.: IAT - automat	RV >>>	32	25	Positive test			
(8) Column agglut.: IAT - manual	RV >>>	97	75	Positive test			
(9) Column agglut.: enzyme - manual	RV >>>	1	0,8	Positive test			

EQA round: IH1/24 - Blood Group Serology

Deadline: 8.3.2024

Setup: groups - M (measurement principle)

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode)			130			0	
Sample S1			130			0	
(0) Not specified	±	118	91	Impossible, risk of haemolysis			
	±	11	8,5	Decision depends on results of other tests not performed in our laboratory			
	±	1	0,8	Possible			
Sample S2			130			0	
(0) Not specified	±	129	99	Impossible, risk of haemolysis			
	±	1	0,8	Decision depends on results of other tests not performed in our laboratory			
(764) Crossmatch (segment K2)			130		130	128	98
Sample S1			130		130	130	100
(3) Column agglut.: IAT - automat	RV	>>>	33	25	Positive test		
(8) Column agglut.: IAT - manual		>	1	0,8	Negative test		
	RV	>>>	95	73	Positive test		
(9) Column agglut.: enzyme - manual	RV	>>>	1	0,8	Positive test		
Sample S2			130			130	128
(3) Column agglut.: IAT - automat	RV	>>>	33	25	Negative test		
(8) Column agglut.: IAT - manual	RV	>>>	94	72	Negative test		
			2	1,5	Positive test		
(9) Column agglut.: enzyme - manual	RV	>>>	1	0,8	Negative test		
(765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode)			130			0	
Sample S1			130			0	
(0) Not specified	±	128	98	Impossible, risk of haemolysis			
	±	2	1,5	Decision depends on results of other tests not performed in our laboratory			
Sample S2			130			0	
(0) Not specified	±	53	41	Impossible, risk of haemolysis			
	±	54	42	Decision depends on results of other tests not performed in our laboratory			
	±	9	6,9	Only if more suitable products are not available			
	±	14	11	Possible			