

EQA round: IH2/23 - Blood Group Serology

Deadline: 2.6.2023

Setup: groups - measurement principle

AV = assigned value

RV = reference value

>>> ... expected result

> ... acceptable result

± ... result not assessed

N_{tot} = total number of the resultsN_{rel} = relative number of the resultsN_{eva} = number of the results assessedN_{suc} = number of successful resultsS_{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		149			149	149	100	
Samples E1 and S1		149			149	149	100	
(1) Tube test	RV >>>	47	32	Blood group: A				
(2) Microplate - aut.	RV >>>	12	8,1	Blood group: A				
(3) Microplate - man.	RV >>>	4	2,7	Blood group: A				
(7) Column agglutination - automat	RV >>>	47	32	Blood group: A				
(9) Column agglutination - manual	RV >>>	38	26	Blood group: A				
(10) Solid phase	RV >>>	1	0,7	Blood group: A				
Samples E2 and S2		149			149	149	100	
(1) Tube test	RV >>>	47	32	Blood group: 0				
(2) Microplate - aut.	RV >>>	12	8,1	Blood group: 0				
(3) Microplate - man.	RV >>>	4	2,7	Blood group: 0				
(7) Column agglutination - automat	RV >>>	47	32	Blood group: 0				
(9) Column agglutination - manual	RV >>>	38	26	Blood group: 0				
(10) Solid phase	RV >>>	1	0,7	Blood group: 0				
(703) A subgroup		44			44	42	95	
Samples E1 and S1		44			44	42	95	
(0) Not specified		1	2,3	A subgroup A1				
	RV >>>	42	95	A subgroup A2				
		1	2,3	A subgroup A3				
Samples E2 and S2		44			44	44	100	
(0) Not specified	RV >>>	44	100	Not specified				
(705) Rh D antigen (blood-donor)		83			83	83	100	
Samples E1 and S1		83			83	83	100	
(1) Tube test	RV >>>	24	29	Positive (RhD+)				
(2) Microplate - aut.	RV >>>	15	18	Positive (RhD+)				
(3) Microplate - man.	RV >>>	2	2,4	Positive (RhD+)				
(7) Column agglutination - automat	RV >>>	24	29	Positive (RhD+)				
(9) Column agglutination - manual	RV >>>	17	20	Positive (RhD+)				
(10) Solid phase	RV >>>	1	1,2	Positive (RhD+)				
Samples E2 and S2		83			83	83	100	
(1) Tube test	RV >>>	24	29	Negative (RhD-)				
(2) Microplate - aut.	RV >>>	15	18	Negative (RhD-)				
(3) Microplate - man.	RV >>>	2	2,4	Negative (RhD-)				
(7) Column agglutination - automat	RV >>>	24	29	Negative (RhD-)				
(9) Column agglutination - manual	RV >>>	17	20	Negative (RhD-)				
(10) Solid phase	RV >>>	1	1,2	Negative (RhD-)				
(709) Rh D antigen (recipient/ pregnant/ newborn)		140			140	140	100	
Samples E1 and S1		140			140	140	100	
(1) Tube test	RV >>>	48	34	Positive (RhD+)				
(2) Microplate - aut.	RV >>>	9	6,4	Positive (RhD+)				
(3) Microplate - man.	RV >>>	3	2,1	Positive (RhD+)				
(7) Column agglutination - automat	RV >>>	44	31	Positive (RhD+)				
(9) Column agglutination - manual	RV >>>	35	25	Positive (RhD+)				
(10) Solid phase	RV >>>	1	0,7	Positive (RhD+)				
Samples E2 and S2		140			140	140	100	
(1) Tube test	RV >>>	48	34	Negative (RhD-)				
(2) Microplate - aut.	RV >>>	9	6,4	Negative (RhD-)				
(3) Microplate - man.	RV >>>	3	2,1	Negative (RhD-)				
(7) Column agglutination - automat	RV >>>	44	31	Negative (RhD-)				
(9) Column agglutination - manual	RV >>>	35	25	Negative (RhD-)				
(10) Solid phase	RV >>>	1	0,7	Negative (RhD-)				
(715) Antigen C		78			78	78	100	
Samples E1 and S1		78			78	78	100	
(1) Tube test	RV >>>	14	18	Negative				
(2) Microplate - aut.	RV >>>	9	12	Negative				
(7) Column agglutination - automat	RV >>>	21	27	Negative				
(9) Column agglutination - manual	RV >>>	32	41	Negative				
(10) Solid phase	RV >>>	2	2,6	Negative				
Samples E2 and S2		78			78	78	100	
(1) Tube test	RV >>>	14	18	Negative				
(2) Microplate - aut.	RV >>>	9	12	Negative				

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Setup: groups - measurement principle

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 >>>	21	27	Negative				
(9) Column agglutination - manual	RV >>>	32	41	Negative				
(10) Solid phase	RV >>>	2	2,6	Negative				
(716) Antigen c		78			78	78	100	
Samples E1 and S1		78			78	78	100	
(1) Tube test	RV >>>	14	18	Positive				
(2) Microplate - aut.	RV >>>	9	12	Positive				
(7) Column agglutination - automat	RV >>>	21	27	Positive				
(9) Column agglutination - manual	RV >>>	32	41	Positive				
(10) Solid phase	RV >>>	2	2,6	Positive				
Samples E2 and S2		78			78	78	100	
(1) Tube test	RV >>>	14	18	Positive				
(2) Microplate - aut.	RV >>>	9	12	Positive				
(7) Column agglutination - automat	RV >>>	21	27	Positive				
(9) Column agglutination - manual	RV >>>	32	41	Positive				
(10) Solid phase	RV >>>	2	2,6	Positive				
(718) Antigen E		79			79	79	100	
Samples E1 and S1		79			79	79	100	
(1) Tube test	RV >>>	15	19	Positive				
(2) Microplate - aut.	RV >>>	9	11	Positive				
(7) Column agglutination - automat	RV >>>	21	27	Positive				
(9) Column agglutination - manual	RV >>>	32	41	Positive				
(10) Solid phase	RV >>>	2	2,5	Positive				
Samples E2 and S2		79			79	79	100	
(1) Tube test	RV >>>	15	19	Negative				
(2) Microplate - aut.	RV >>>	9	11	Negative				
(7) Column agglutination - automat	RV >>>	21	27	Negative				
(9) Column agglutination - manual	RV >>>	32	41	Negative				
(10) Solid phase	RV >>>	2	2,5	Negative				
(719) Antigen e		78			78	77	99	
Samples E1 and S1		78			78	77	99	
(1) Tube test	RV >>>	14	18	Positive				
(2) Microplate - aut.	RV >>>	9	12	Positive				
(7) Column agglutination - automat		1	1,3	Negative				
	RV >>>	20	26	Positive				
(9) Column agglutination - manual	RV >>>	32	41	Positive				
(10) Solid phase	RV >>>	2	2,6	Positive				
Samples E2 and S2		78			78	77	99	
(1) Tube test	RV >>>	14	18	Positive				
(2) Microplate - aut.	RV >>>	9	12	Positive				
(7) Column agglutination - automat		1	1,3	Negative				
	RV >>>	20	26	Positive				
(9) Column agglutination - manual	RV >>>	32	41	Positive				
(10) Solid phase	RV >>>	2	2,6	Positive				
(717) Antigen C^w		65			65	65	100	
Samples E1 and S1		65			65	65	100	
(1) Tube test	RV >>>	16	25	Negative				
(2) Microplate - aut.	RV >>>	8	12	Negative				
(7) Column agglutination - automat	RV >>>	15	23	Negative				
(9) Column agglutination - manual	RV >>>	24	37	Negative				
(10) Solid phase	RV >>>	2	3,1	Negative				
Samples E2 and S2		65			65	65	100	
(1) Tube test	RV >>>	16	25	Negative				
(2) Microplate - aut.	RV >>>	8	12	Negative				
(7) Column agglutination - automat	RV >>>	15	23	Negative				
(9) Column agglutination - manual	RV >>>	24	37	Negative				
(10) Solid phase	RV >>>	2	3,1	Negative				
(720) Antigen K		84			84	84	100	
Samples E1 and S1		84			84	84	100	
(1) Tube test	RV >>>	15	18	Negative				
(2) Microplate - aut.	RV >>>	9	11	Negative				
(7) Column agglutination - automat	RV >>>	23	27	Negative				
(9) Column agglutination - manual	RV >>>	35	42	Negative				
(10) Solid phase	RV >>>	2	2,4	Negative				
Samples E2 and S2		84			84	84	100	
(1) Tube test	RV >>>	15	18	Negative				
(2) Microplate - aut.	RV >>>	9	11	Negative				
(7) Column agglutination - automat	RV >>>	23	27	Negative				
(9) Column agglutination - manual	RV >>>	35	42	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	>>>	2	2,4	Negative			
(721) Antigen k			46			46	45	98
Samples E1 and S1			46			46	45	98
(1) Tube test	RV	>>>	23	50	Positive			
(7) Column agglutination - automat	RV	>>>	7	15	Positive			
(9) Column agglutination - manual			1	2,2	Negative			
	RV	>>>	13	28	Positive			
(10) Solid phase	RV	>>>	2	4,3	Positive			
Samples E2 and S2			46			46	45	98
(1) Tube test	RV	>>>	23	50	Positive			
(7) Column agglutination - automat	RV	>>>	7	15	Positive			
(9) Column agglutination - manual			1	2,2	Negative			
	RV	>>>	13	28	Positive			
(10) Solid phase	RV	>>>	2	4,3	Positive			
(738) Antigen Kp^a			15			15	15	100
Samples E1 and S1			15			15	15	100
(1) Tube test	RV	>>>	6	40	Negative			
(7) Column agglutination - automat	RV	>>>	1	6,7	Negative			
(9) Column agglutination - manual	RV	>>>	8	53	Negative			
Samples E2 and S2			15			15	15	100
(1) Tube test	RV	>>>	6	40	Negative			
(7) Column agglutination - automat	RV	>>>	1	6,7	Negative			
(9) Column agglutination - manual	RV	>>>	8	53	Negative			
(739) Antigen Kp^b			8			8	7	88
Samples E1 and S1			8			8	7	88
(1) Tube test	RV	>>>	3	38	Positive			
(7) Column agglutination - automat	RV	>>>	1	13	Positive			
(9) Column agglutination - manual			1	13	Negative			
	RV	>>>	3	38	Positive			
Samples E2 and S2			8			8	7	88
(1) Tube test	RV	>>>	3	38	Positive			
(7) Column agglutination - automat	RV	>>>	1	13	Positive			
(9) Column agglutination - manual			1	13	Negative			
	RV	>>>	3	38	Positive			
(729) Antigen Jk^a			40			40	40	100
Samples E1 and S1			40			40	40	100
(1) Tube test	RV	>>>	16	40	Positive			
(2) Microplate - aut.	RV	>>>	3	7,5	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,5	Positive			
(8) Lateral diffusion	RV	>>>	1	2,5	Positive			
(9) Column agglutination - manual	RV	>>>	17	43	Positive			
Samples E2 and S2			40			40	40	100
(1) Tube test	RV	>>>	16	40	Negative			
(2) Microplate - aut.	RV	>>>	3	7,5	Negative			
(7) Column agglutination - automat	RV	>>>	3	7,5	Negative			
(8) Lateral diffusion	RV	>>>	1	2,5	Negative			
(9) Column agglutination - manual	RV	>>>	17	43	Negative			
(730) Antigen Jk^b			40			40	38	95
Samples E1 and S1			40			40	39	98
(1) Tube test	RV	>>>	16	40	Negative			
			1	2,5	Positive			
(2) Microplate - aut.	RV	>>>	3	7,5	Negative			
(7) Column agglutination - automat	RV	>>>	3	7,5	Negative			
(8) Lateral diffusion	RV	>>>	1	2,5	Negative			
(9) Column agglutination - manual	RV	>>>	16	40	Negative			
Samples E2 and S2			40			40	39	98
(1) Tube test	RV	>>>	17	43	Positive			
(2) Microplate - aut.	RV	>>>	3	7,5	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,5	Positive			
(8) Lateral diffusion	RV	>>>	1	2,5	Positive			
(9) Column agglutination - manual			1	2,5	Negative			
	RV	>>>	15	38	Positive			
(727) Antigen Fy^a			40			40	40	100
Samples E1 and S1			40			40	40	100
(1) Tube test	RV	>>>	13	33	Positive			
(2) Microplate - aut.	RV	>>>	1	2,5	Positive			
(7) Column agglutination - automat	RV	>>>	4	10	Positive			
(8) Lateral diffusion	RV	>>>	1	2,5	Positive			
(9) Column agglutination - manual	RV	>>>	19	48	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} [%]	
(10) Solid phase	RV	>>>	2	5	Positive			
Samples E2 and S2			40			40	40	100
(1) Tube test	RV	>>>	13	33	Positive			
(2) Microplate - aut.	RV	>>>	1	2,5	Positive			
(7) Column agglutination - automat	RV	>>>	4	10	Positive			
(8) Lateral diffusion	RV	>>>	1	2,5	Positive			
(9) Column agglutination - manual	RV	>>>	19	48	Positive			
(10) Solid phase	RV	>>>	2	5	Positive			
(728) Antigen Fy^p			40			40	40	100
Samples E1 and S1			40			40	40	100
(1) Tube test	RV	>>>	13	33	Negative			
(2) Microplate - aut.	RV	>>>	2	5	Negative			
(7) Column agglutination - automat	RV	>>>	4	10	Negative			
(8) Lateral diffusion	RV	>>>	1	2,5	Negative			
(9) Column agglutination - manual	RV	>>>	19	48	Negative			
(10) Solid phase	RV	>>>	1	2,5	Negative			
Samples E2 and S2			40			40	40	100
(1) Tube test	RV	>>>	13	33	Negative			
(2) Microplate - aut.	RV	>>>	2	5	Negative			
(7) Column agglutination - automat	RV	>>>	4	10	Negative			
(8) Lateral diffusion	RV	>>>	1	2,5	Negative			
(9) Column agglutination - manual	RV	>>>	19	48	Negative			
(10) Solid phase	RV	>>>	1	2,5	Negative			
(722) Antigen M			40			40	40	100
Samples E1 and S1			40			40	40	100
(1) Tube test	RV	>>>	19	48	Negative			
(2) Microplate - aut.	RV	>>>	2	5	Negative			
(7) Column agglutination - automat	RV	>>>	4	10	Negative			
(9) Column agglutination - manual	RV	>>>	15	38	Negative			
Samples E2 and S2			40			40	40	100
(1) Tube test	RV	>>>	19	48	Negative			
(2) Microplate - aut.	RV	>>>	2	5	Negative			
(7) Column agglutination - automat	RV	>>>	4	10	Negative			
(9) Column agglutination - manual	RV	>>>	15	38	Negative			
(723) Antigen N			35			35	35	100
Samples E1 and S1			35			35	35	100
(1) Tube test	RV	>>>	15	43	Positive			
(2) Microplate - aut.	RV	>>>	1	2,9	Positive			
(7) Column agglutination - automat	RV	>>>	4	11	Positive			
(9) Column agglutination - manual	RV	>>>	15	43	Positive			
Samples E2 and S2			35			35	35	100
(1) Tube test	RV	>>>	15	43	Positive			
(2) Microplate - aut.	RV	>>>	1	2,9	Positive			
(7) Column agglutination - automat	RV	>>>	4	11	Positive			
(9) Column agglutination - manual	RV	>>>	15	43	Positive			
(724) Antigen S			40			40	40	100
Samples E1 and S1			40			40	40	100
(1) Tube test	RV	>>>	16	40	Negative			
(2) Microplate - aut.	RV	>>>	2	5	Negative			
(7) Column agglutination - automat	RV	>>>	4	10	Negative			
(8) Lateral diffusion	RV	>>>	1	2,5	Negative			
(9) Column agglutination - manual	RV	>>>	16	40	Negative			
(10) Solid phase	RV	>>>	1	2,5	Negative			
Samples E2 and S2			40			40	40	100
(1) Tube test	RV	>>>	16	40	Negative			
(2) Microplate - aut.	RV	>>>	2	5	Negative			
(7) Column agglutination - automat	RV	>>>	4	10	Negative			
(8) Lateral diffusion	RV	>>>	1	2,5	Negative			
(9) Column agglutination - manual	RV	>>>	16	40	Negative			
(10) Solid phase	RV	>>>	1	2,5	Negative			
(725) Antigen s			39			39	39	100
Samples E1 and S1			39			39	39	100
(1) Tube test	RV	>>>	15	38	Positive			
(2) Microplate - aut.	RV	>>>	2	5,1	Positive			
(7) Column agglutination - automat	RV	>>>	4	10	Positive			
(8) Lateral diffusion	RV	>>>	1	2,6	Positive			
(9) Column agglutination - manual	RV	>>>	16	41	Positive			
(10) Solid phase	RV	>>>	1	2,6	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		39				39	39	100
(1) Tube test	RV >>>	15	38	Positive				
(2) Microplate - aut.	RV >>>	2	5,1	Positive				
(7) Column agglutination - automat	RV >>>	4	10	Positive				
(8) Lateral diffusion	RV >>>	1	2,6	Positive				
(9) Column agglutination - manual	RV >>>	16	41	Positive				
(10) Solid phase	RV >>>	1	2,6	Positive				
(733) Antigen Le^a		30				30	30	100
Samples E1 and S1		30				30	30	100
(1) Tube test	RV >>>	15	50	Positive				
(7) Column agglutination - automat	RV >>>	3	10	Positive				
(9) Column agglutination - manual	RV >>>	12	40	Positive				
Samples E2 and S2		30				30	30	100
(1) Tube test	RV >>>	15	50	Negative				
(7) Column agglutination - automat	RV >>>	3	10	Negative				
(9) Column agglutination - manual	RV >>>	12	40	Negative				
(734) Antigen Le^b		30				30	30	100
Samples E1 and S1		30				30	30	100
(1) Tube test	RV >>>	15	50	Negative				
(7) Column agglutination - automat	RV >>>	3	10	Negative				
(9) Column agglutination - manual	RV >>>	12	40	Negative				
Samples E2 and S2		30				30	30	100
(1) Tube test	RV >>>	15	50	Positive				
(7) Column agglutination - automat	RV >>>	3	10	Positive				
(9) Column agglutination - manual	RV >>>	12	40	Positive				
(731) Antigen Lu^a		24				24	24	100
Samples E1 and S1		24				24	24	100
(1) Tube test	RV >>>	9	38	Negative				
(7) Column agglutination - automat	RV >>>	2	8,3	Negative				
(9) Column agglutination - manual	RV >>>	13	54	Negative				
Samples E2 and S2		24				24	24	100
(1) Tube test	RV >>>	9	38	Negative				
(7) Column agglutination - automat	RV >>>	2	8,3	Negative				
(9) Column agglutination - manual	RV >>>	13	54	Negative				
(732) Antigen Lu^b		22				22	22	100
Samples E1 and S1		22				22	22	100
(1) Tube test	RV >>>	9	41	Positive				
(7) Column agglutination - automat	RV >>>	3	14	Positive				
(9) Column agglutination - manual	RV >>>	10	45	Positive				
Samples E2 and S2		22				22	22	100
(1) Tube test	RV >>>	9	41	Positive				
(7) Column agglutination - automat	RV >>>	3	14	Positive				
(9) Column agglutination - manual	RV >>>	10	45	Positive				
(726) Antigen P1		26				26	26	100
Samples E1 and S1		26				26	26	100
(1) Tube test	RV >>>	19	73	Positive				
(7) Column agglutination - automat	RV >>>	2	7,7	Positive				
(9) Column agglutination - manual	RV >>>	5	19	Positive				
Samples E2 and S2		26				26	26	100
(1) Tube test	RV >>>	19	73	Positive				
(7) Column agglutination - automat	RV >>>	2	7,7	Positive				
(9) Column agglutination - manual	RV >>>	5	19	Positive				
(740) Antigen Wr^a		8				8	8	100
Samples E1 and S1		8				8	8	100
(1) Tube test	RV >>>	4	50	Negative				
(9) Column agglutination - manual	RV >>>	4	50	Negative				
Samples E2 and S2		8				8	8	100
(1) Tube test	RV >>>	4	50	Negative				
(9) Column agglutination - manual	RV >>>	4	50	Negative				
(737) Direct Coombs (antiglobulin) test		122				122	122	100
Samples E1 and S1		122				122	122	100
(1) Tube test: IAT	RV >>>	4	3,3	Negative				
(3) Column agglut.: IAT - automat	RV >>>	32	26	Negative				
(6) Microplate: IAT	RV >>>	1	0,8	Negative				
(8) Column agglut.: IAT - manual	RV >>>	82	67	Negative				
(9) Column agglut.: enzyme - manual	RV >>>	2	1,6	Negative				
(99) Another measurement principle	RV >>>	1	0,8	Negative				
Samples E2 and S2		122				122	122	100
(1) Tube test: IAT	RV >>>	4	3,3	Negative				

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Setup: groups - measurement principle

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(3) Column agglut.: IAT - automat	RV	>>>	32	26	Negative			
(6) Microplate: IAT	RV	>>>	1	0,8	Negative			
(8) Column agglut.: IAT - manual	RV	>>>	82	67	Negative			
(9) Column agglut.: enzyme - manual	RV	>>>	2	1,6	Negative			
(99) Another measurement principle	RV	>>>	1	0,8	Negative			
(741) Antibody screening (IAT, blood donor)			78			78	78	100
Samples E1 and S1			78			78	78	100
(1) Tube test: IAT	RV	>>>	1	1,3	Positive			
(3) Column agglut.: IAT - automat	RV	>>>	23	29	Positive			
(5) Solid phase	RV	>>>	14	18	Positive			
(6) Microplate: IAT	RV	>>>	2	2,6	Positive			
(8) Column agglut.: IAT - manual	RV	>>>	38	49	Positive			
Samples E2 and S2			78			78	78	100
(1) Tube test: IAT	RV	>>>	1	1,3	Positive			
(3) Column agglut.: IAT - automat	RV	>>>	23	29	Positive			
(5) Solid phase	RV	>>>	14	18	Positive			
(6) Microplate: IAT	RV	>>>	2	2,6	Positive			
(8) Column agglut.: IAT - manual	RV	>>>	38	49	Positive			
(743) Antibody screening (IAT, recipient)			133			133	133	100
Samples E1 and S1			133			133	133	100
(1) Tube test: IAT	RV	>>>	1	0,8	Positive			
(3) Column agglut.: IAT - automat	RV	>>>	41	31	Positive			
(5) Solid phase	RV	>>>	4	3	Positive			
(8) Column agglut.: IAT - manual	RV	>>>	87	65	Positive			
Samples E2 and S2			133			133	133	100
(1) Tube test: IAT	RV	>>>	1	0,8	Positive			
(3) Column agglut.: IAT - automat	RV	>>>	41	31	Positive			
(5) Solid phase	RV	>>>	4	3	Positive			
(8) Column agglut.: IAT - manual	RV	>>>	87	65	Positive			
(745) Antibody screening (IAT, pregnant)			107			107	107	100
Samples E1 and S1			107			107	107	100
(1) Tube test: IAT	RV	>>>	2	1,9	Positive			
(3) Column agglut.: IAT - automat	RV	>>>	36	34	Positive			
(5) Solid phase	RV	>>>	4	3,7	Positive			
(8) Column agglut.: IAT - manual	RV	>>>	65	61	Positive			
Samples E2 and S2			107			107	107	100
(1) Tube test: IAT	RV	>>>	2	1,9	Positive			
(3) Column agglut.: IAT - automat	RV	>>>	36	34	Positive			
(5) Solid phase	RV	>>>	4	3,7	Positive			
(8) Column agglut.: IAT - manual	RV	>>>	65	61	Positive			
(747) Antibody screening (enzyme test)			103			103	102	99
Samples E1 and S1			103			103	103	100
(2) Tube test: enzyme	RV	>>>	1	1	Positive			
(3) Column agglut.: IAT - automat		>	1	1	Negative			
(4) Column agglut.: enzyme - automat		>	2	1,9	Negative			
	RV	>>>	26	25	Positive			
(8) Column agglut.: IAT - manual		>	2	1,9	Negative			
	RV	>>>	3	2,9	Positive			
(9) Column agglut.: enzyme - manual		>	10	9,7	Negative			
	RV	>>>	58	56	Positive			
Samples E2 and S2			103			103	102	99
(2) Tube test: enzyme	RV	>>>	1	1	Positive			
(3) Column agglut.: IAT - automat		>	1	1	Negative			
(4) Column agglut.: enzyme - automat	RV	>>>	28	27	Positive			
(8) Column agglut.: IAT - manual	RV	>>>	5	4,9	Positive			
(9) Column agglut.: enzyme - manual	RV	>>>	68	66	Positive			
(750) Antibody identification			50			50	48	96
Samples E1 and S1			50			50	50	100
(0) Not specified	RV	>>>	50	100	anti-K			
Samples E2 and S2			50			50	48	96
(0) Not specified			1	2	Not specified			
	RV	>>>	48	96	anti-D; anti-M			
			1	2	anti-M; anti-C; anti-E			
(752) Antibody titre, Sample 1: 1st antibody			33			0		
Samples E1 and S1			33			0		
(1) Tube + homozyg. expression		±	2	6,1	titre 32			
		±	1	3	titre 64			
(2) Tube + heterozyg. expression		±	3	9,1	titre 16			
		±	1	3	titre 32			

EQA round: IH2/23 - Blood Group Serology

Deadline: 2.6.2023

Setup: groups - measurement principle

Test Sample Group	Frequency of the results				Success			
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
	±	1	3	titre 128				
(3) Column agglut.+ homozyg. expres.	±	2	6,1	titre 32				
(4) Column agglut.+ heterozyg. expres.	±	3	9,1	titre 8				
	±	9	27	titre 16				
	±	10	30	titre 32				
	±	1	3	titre 128				
(756) Antibody titre, Sample 2: 1st antibody		32				0		
Samples E2 and S2		32				0		
(0) Not specified	±	1	3,1	titre 64				
(1) Tube + homozyg. expression	±	1	3,1	titre 128				
	±	1	3,1	titre 256				
(2) Tube + heterozyg. expression	±	1	3,1	titre 2000				
(3) Column agglut.+ homozyg. expres.	±	1	3,1	titre 32				
	±	4	13	titre 64				
	±	2	6,3	titre 128				
	±	1	3,1	titre 512				
(4) Column agglut.+ heterozyg. expres.	±	1	3,1	titre 16				
	±	5	16	titre 32				
	±	4	13	titre 64				
	±	7	22	titre 128				
	±	1	3,1	titre 256				
(99) Another measurement principle	±	1	3,1	titre 32				
	±	1	3,1	titre 64				
(757) Antibody titre, Sample 2: 2nd antibody		33				0		
Samples E2 and S2		33				0		
(1) Tube + homozyg. expression	±	1	3	titre 512				
	±	1	3	titre 4000				
(2) Tube + heterozyg. expression	±	1	3	titre 64				
(3) Column agglut.+ homozyg. expres.	±	3	9,1	titre 128				
	±	3	9,1	titre 512				
	±	2	6,1	titre 1000				
(4) Column agglut.+ heterozyg. expres.	±	2	6,1	titre 32				
	±	4	12	titre 64				
	±	6	18	titre 128				
	±	4	12	titre 256				
	±	4	12	titre 512				
	±	2	6,1	titre 1000				
Set 3								
(760) Crossmatch		120				120	120	100
Sample S1		120				120	120	100
All results	RV >>>	120	100	Crossmatch successful				
Sample S2		120				120	120	100
All results	RV >>>	120	100	Crossmatch successful				
(761) Crossmatch (segment K1)		120				120	120	100
Sample S1		120				120	120	100
(1) Tube test: IAT	RV >>>	1	0,8	Positive test				
(3) Column agglut.: IAT - automat	RV >>>	29	24	Positive test				
(5) Solid phase	RV >>>	2	1,7	Positive test				
(8) Column agglut.: IAT - manual	RV >>>	85	71	Positive test				
(9) Column agglut.: enzyme - manual	RV >>>	2	1,7	Positive test				
(99) Another measurement principle	RV >>>	1	0,8	Positive test				
Sample S2		120				120	120	100
(1) Tube test: IAT	RV >>>	1	0,8	Positive test				
(3) Column agglut.: IAT - automat	RV >>>	29	24	Positive test				
(5) Solid phase	RV >>>	2	1,7	Positive test				
(8) Column agglut.: IAT - manual	RV >>>	85	71	Positive test				
(9) Column agglut.: enzyme - manual	RV >>>	2	1,7	Positive test				
(99) Another measurement principle	RV >>>	1	0,8	Positive test				
(762) Serve transfusion product? (segment K1)		120				0		
(transfusion in non-emergency mode)								
Sample S1		120				0		
(0) Not specified	±	119	99	Impossible, risk of haemolysis				
	±	1	0,8	Decision depends on results of other tests not performed in our laboratory				
Sample S2		120				0		
(0) Not specified	±	119	99	Impossible, risk of haemolysis				

EQA round: IH2/23 - Blood Group Serology

Deadline: 2.6.2023

Setup: groups - measurement principle

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
	±	1	0,8	Decision depends on results of other tests not performed in our laboratory			
(764) Crossmatch (segment K2)		120			120	120	100
Sample S1		120			120	120	100
(1) Tube test: IAT	RV	>>>	1	0,8	Negative test		
(3) Column agglut.: IAT - automat	RV	>>>	30	25	Negative test		
(5) Solid phase	RV	>>>	2	1,7	Negative test		
(8) Column agglut.: IAT - manual	RV	>>>	85	71	Negative test		
(9) Column agglut.: enzyme - manual	RV	>>>	1	0,8	Negative test		
(99) Another measurement principle	RV	>>>	1	0,8	Negative test		
Sample S2		120			120	120	100
(1) Tube test: IAT	RV	>>>	1	0,8	Positive test		
(3) Column agglut.: IAT - automat	RV	>>>	30	25	Positive test		
(5) Solid phase	RV	>>>	2	1,7	Positive test		
(8) Column agglut.: IAT - manual	RV	>>>	85	71	Positive test		
(9) Column agglut.: enzyme - manual	RV	>>>	1	0,8	Positive test		
(99) Another measurement principle	RV	>>>	1	0,8	Positive test		
(765) Serve transfusion product? (segment K2)		120			0		
(transfusion in non-emergency mode)							
Sample S1		120			0		
(0) Not specified	±	63	53	Decision depends on results of other tests not performed in our laboratory			
	±	21	18	Only if more suitable products are not available			
	±	36	30	Possible			
Sample S2		120			0		
(0) Not specified	±	118	98	Impossible, risk of haemolysis			
	±	2	1,7	Decision depends on results of other tests not performed in our laboratory			