

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: groups - M (measurement principle)

AV = assigned value	N _{tot} = total number of the results	N _{eva} = number of the results assessed
RV = reference value	N _{rel} = relative number of the results	N _{suc} = number of successful results
>>> ... expected result		S _{rel} = relative success
> ... acceptable result		
± ... result not assessed		

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		173			173	170	98
Samples E1 and S1		173			173	170	98
(1) Tube test	RV >>>	51	29	Blood group: A			
		1	0,6	Blood group: B			
(2) Microplate - aut.	RV >>>	14	8,1	Blood group: A			
(3) Microplate - man.	RV >>>	6	3,5	Blood group: A			
(7) Column agglutination - automat		1	0,6	Not specified			
	RV >>>	49	28	Blood group: A			
		1	0,6	Blood group: B			
(9) Column agglutination - manual	RV >>>	48	28	Blood group: A			
(10) Solid phase	RV >>>	2	1,2	Blood group: A			
Samples E2 and S2		173			173	171	99
(1) Tube test		1	0,6	Blood group: A			
	RV >>>	51	29	Blood group: B			
(2) Microplate - aut.	RV >>>	14	8,1	Blood group: B			
(3) Microplate - man.	RV >>>	6	3,5	Blood group: B			
(7) Column agglutination - automat		1	0,6	Blood group: A			
	RV >>>	50	29	Blood group: B			
(9) Column agglutination - manual	RV >>>	48	28	Blood group: B			
(10) Solid phase	RV >>>	2	1,2	Blood group: B			
(703) A subgroup		50			50	49	98
Samples E1 and S1		50			50	49	98
(0) Not specified		1	2	A subgroup A1			
	RV >>>	49	98	A subgroup A2			
Samples E2 and S2		50			50	50	100
(0) Not specified	RV >>>	50	100	Not specified			
(705) RhD antigen (blood-donor)		97			97	97	100
Samples E1 and S1		97			97	97	100
(1) Tube test	RV >>>	29	30	Positive (RhD+)			
(2) Microplate - aut.	RV >>>	16	16	Positive (RhD+)			
(3) Microplate - man.	RV >>>	3	3,1	Positive (RhD+)			
(7) Column agglutination - automat	RV >>>	25	26	Positive (RhD+)			
(9) Column agglutination - manual	RV >>>	23	24	Positive (RhD+)			
(10) Solid phase	RV >>>	1	1	Positive (RhD+)			
Samples E2 and S2		97			97	97	100
(1) Tube test	RV >>>	29	30	Positive (RhD+)			
(2) Microplate - aut.	RV >>>	16	16	Positive (RhD+)			
(3) Microplate - man.	RV >>>	3	3,1	Positive (RhD+)			
(7) Column agglutination - automat	RV >>>	25	26	Positive (RhD+)			
(9) Column agglutination - manual	RV >>>	23	24	Positive (RhD+)			
(10) Solid phase	RV >>>	1	1	Positive (RhD+)			
(709) RhD antigen (recipient/ pregnant/ newborn)		167			167	167	100
Samples E1 and S1		167			167	167	100
(1) Tube test	RV >>>	57	34	Positive (RhD+)			
(2) Microplate - aut.	RV >>>	12	7,2	Positive (RhD+)			
(3) Microplate - man.	RV >>>	5	3	Positive (RhD+)			
(7) Column agglutination - automat	RV >>>	48	29	Positive (RhD+)			
(9) Column agglutination - manual	RV >>>	43	26	Positive (RhD+)			
(10) Solid phase	RV >>>	2	1,2	Positive (RhD+)			
Samples E2 and S2		167			167	167	100
(1) Tube test	RV >>>	57	34	Positive (RhD+)			
(2) Microplate - aut.	RV >>>	12	7,2	Positive (RhD+)			
(3) Microplate - man.	RV >>>	5	3	Positive (RhD+)			
(7) Column agglutination - automat	RV >>>	48	29	Positive (RhD+)			
(9) Column agglutination - manual	RV >>>	43	26	Positive (RhD+)			
(10) Solid phase	RV >>>	2	1,2	Positive (RhD+)			
(715) Antigen C		90			90	89	99
Samples E1 and S1		90			90	89	99
(1) Tube test	RV >>>	17	19	Negative			
(2) Microplate - aut.	RV >>>	10	11	Negative			
(3) Microplate - man.	RV >>>	1	1,1	Negative			
(7) Column agglutination - automat	RV >>>	22	24	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	>>>	1	1,1	Positive			
(10) Solid phase	RV	>>>	36	40	Negative			
Samples E2 and S2			90			90	89	99
(1) Tube test	RV	>>>	17	19	Positive			
(2) Microplate - aut.	RV	>>>	10	11	Positive			
(3) Microplate - man.	RV	>>>	1	1,1	Positive			
(7) Column agglutination - automat			1	1,1	Negative			
	RV	>>>	22	24	Positive			
(9) Column agglutination - manual	RV	>>>	36	40	Positive			
(10) Solid phase	RV	>>>	3	3,3	Positive			
(716) Antigen c			90			90	89	99
Samples E1 and S1			90			90	89	99
(1) Tube test	RV	>>>	16	18	Positive			
(2) Microplate - aut.	RV	>>>	10	11	Positive			
(3) Microplate - man.	RV	>>>	1	1,1	Positive			
(7) Column agglutination - automat			1	1,1	Negative			
	RV	>>>	22	24	Positive			
(9) Column agglutination - manual	RV	>>>	37	41	Positive			
(10) Solid phase	RV	>>>	3	3,3	Positive			
Samples E2 and S2			90			90	89	99
(1) Tube test	RV	>>>	16	18	Negative			
(2) Microplate - aut.	RV	>>>	10	11	Negative			
(3) Microplate - man.	RV	>>>	1	1,1	Negative			
(7) Column agglutination - automat			22	24	Negative			
			1	1,1	Positive			
(9) Column agglutination - manual	RV	>>>	37	41	Negative			
(10) Solid phase	RV	>>>	3	3,3	Negative			
(718) Antigen E			91			91	90	99
Samples E1 and S1			91			91	90	99
(1) Tube test	RV	>>>	17	19	Positive			
(2) Microplate - aut.	RV	>>>	10	11	Positive			
(3) Microplate - man.	RV	>>>	1	1,1	Positive			
(7) Column agglutination - automat			1	1,1	Negative			
	RV	>>>	22	24	Positive			
(9) Column agglutination - manual	RV	>>>	37	41	Positive			
(10) Solid phase	RV	>>>	3	3,3	Positive			
Samples E2 and S2			91			91	90	99
(1) Tube test	RV	>>>	17	19	Negative			
(2) Microplate - aut.	RV	>>>	10	11	Negative			
(3) Microplate - man.	RV	>>>	1	1,1	Negative			
(7) Column agglutination - automat			22	24	Negative			
			1	1,1	Positive			
(9) Column agglutination - manual	RV	>>>	37	41	Negative			
(10) Solid phase	RV	>>>	3	3,3	Negative			
(719) Antigen e			90			90	89	99
Samples E1 and S1			90			90	89	99
(1) Tube test	RV	>>>	16	18	Positive			
(2) Microplate - aut.	RV	>>>	10	11	Positive			
(3) Microplate - man.	RV	>>>	1	1,1	Positive			
(7) Column agglutination - automat			23	26	Positive			
(9) Column agglutination - manual			1	1,1	Negative			
	RV	>>>	36	40	Positive			
(10) Solid phase	RV	>>>	3	3,3	Positive			
Samples E2 and S2			90			90	90	100
(1) Tube test	RV	>>>	16	18	Positive			
(2) Microplate - aut.	RV	>>>	10	11	Positive			
(3) Microplate - man.	RV	>>>	1	1,1	Positive			
(7) Column agglutination - automat			23	26	Positive			
(9) Column agglutination - manual	RV	>>>	37	41	Positive			
(10) Solid phase	RV	>>>	3	3,3	Positive			
(717) Antigen C^w			74			74	74	100
Samples E1 and S1			74			74	74	100
(1) Tube test	RV	>>>	16	22	Negative			
(2) Microplate - aut.	RV	>>>	9	12	Negative			
(3) Microplate - man.	RV	>>>	1	1,4	Negative			
(7) Column agglutination - automat			18	24	Negative			
(9) Column agglutination - manual	RV	>>>	27	36	Negative			
(10) Solid phase	RV	>>>	3	4,1	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} [%]	
Samples E2 and S2		74				74	74	100
(1) Tube test	RV >>>	16	22	Negative				
(2) Microplate - aut.	RV >>>	9	12	Negative				
(3) Microplate - man.	RV >>>	1	1,4	Negative				
(7) Column agglutination - automat	RV >>>	18	24	Negative				
(9) Column agglutination - manual	RV >>>	27	36	Negative				
(10) Solid phase	RV >>>	3	4,1	Negative				
(720) Antigen K		97				97	95	98
Samples E1 and S1		97				97	96	99
(1) Tube test	RV >>>	17	18	Negative				
(2) Microplate - aut.	RV >>>	10	10	Negative				
(3) Microplate - man.	RV >>>	1	1	Negative				
(7) Column agglutination - automat	RV >>>	25	26	Negative				
		1	1	Positive				
(9) Column agglutination - manual	RV >>>	40	41	Negative				
(10) Solid phase	RV >>>	3	3,1	Negative				
Samples E2 and S2		97				97	95	98
(1) Tube test		1	1	Negative				
	RV >>>	16	16	Positive				
(2) Microplate - aut.	RV >>>	10	10	Positive				
(3) Microplate - man.	RV >>>	1	1	Positive				
(7) Column agglutination - automat		1	1	Negative				
	RV >>>	25	26	Positive				
(9) Column agglutination - manual	RV >>>	40	41	Positive				
(10) Solid phase	RV >>>	3	3,1	Positive				
(721) Antigen k		49				49	47	96
Samples E1 and S1		49				49	48	98
(1) Tube test	RV >>>	27	55	Positive				
(2) Microplate - aut.		1	2	Not specified				
(7) Column agglutination - automat	RV >>>	4	8,2	Positive				
(9) Column agglutination - manual	RV >>>	15	31	Positive				
(10) Solid phase	RV >>>	2	4,1	Positive				
Samples E2 and S2		49				49	48	98
(1) Tube test		1	2	Negative				
	RV >>>	26	53	Positive				
(2) Microplate - aut.	RV >>>	1	2	Positive				
(7) Column agglutination - automat	RV >>>	4	8,2	Positive				
(9) Column agglutination - manual	RV >>>	15	31	Positive				
(10) Solid phase	RV >>>	2	4,1	Positive				
(738) Antigen Kp^a		15				15	14	93
Samples E1 and S1		15				15	14	93
(1) Tube test	RV >>>	6	40	Negative				
(9) Column agglutination - manual		1	6,7	Not specified				
	RV >>>	8	53	Negative				
Samples E2 and S2		15				15	15	100
(1) Tube test	RV >>>	6	40	Negative				
(9) Column agglutination - manual	RV >>>	9	60	Negative				
(739) Antigen Kp^b		6				6	6	100
Samples E1 and S1		6				6	6	100
(1) Tube test	RV >>>	3	50	Positive				
(9) Column agglutination - manual	RV >>>	3	50	Positive				
Samples E2 and S2		6				6	6	100
(1) Tube test	RV >>>	3	50	Positive				
(9) Column agglutination - manual	RV >>>	3	50	Positive				
(729) Antigen Jk^a		45				45	45	100
Samples E1 and S1		45				45	45	100
(1) Tube test	RV >>>	23	51	Negative				
(2) Microplate - aut.	RV >>>	3	6,7	Negative				
(7) Column agglutination - automat	RV >>>	2	4,4	Negative				
(9) Column agglutination - manual	RV >>>	17	38	Negative				
Samples E2 and S2		45				45	45	100
(1) Tube test	RV >>>	23	51	Negative				
(2) Microplate - aut.	RV >>>	3	6,7	Negative				
(7) Column agglutination - automat	RV >>>	2	4,4	Negative				
(9) Column agglutination - manual	RV >>>	17	38	Negative				
(730) Antigen Jk^b		44				44	44	100
Samples E1 and S1		44				44	44	100
(1) Tube test	RV >>>	22	50	Positive				
(2) Microplate - aut.	RV >>>	3	6,8	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} [%]	
(7) Column agglutination - automat	RV >>>	2	4,5	Positive				
(9) Column agglutination - manual	RV >>>	17	39	Positive				
Samples E2 and S2		44			44	44	100	
(1) Tube test	RV >>>	22	50	Positive				
(2) Microplate - aut.	RV >>>	3	6,8	Positive				
(7) Column agglutination - automat	RV >>>	2	4,5	Positive				
(9) Column agglutination - manual	RV >>>	17	39	Positive				
(727) Antigen Fy^a		44			44	44	100	
Samples E1 and S1		44			44	44	100	
(1) Tube test	RV >>>	16	36	Negative				
(7) Column agglutination - automat	RV >>>	2	4,5	Negative				
(9) Column agglutination - manual	RV >>>	23	52	Negative				
(10) Solid phase	RV >>>	3	6,8	Negative				
Samples E2 and S2		44			44	44	100	
(1) Tube test	RV >>>	16	36	Positive				
(7) Column agglutination - automat	RV >>>	2	4,5	Positive				
(9) Column agglutination - manual	RV >>>	23	52	Positive				
(10) Solid phase	RV >>>	3	6,8	Positive				
(728) Antigen Fy^b		45			45	45	100	
Samples E1 and S1		45			45	45	100	
(1) Tube test	RV >>>	17	38	Positive				
(2) Microplate - aut.	RV >>>	3	6,7	Positive				
(7) Column agglutination - automat	RV >>>	2	4,4	Positive				
(9) Column agglutination - manual	RV >>>	23	51	Positive				
Samples E2 and S2		45			45	45	100	
(1) Tube test	RV >>>	17	38	Positive				
(2) Microplate - aut.	RV >>>	3	6,7	Positive				
(7) Column agglutination - automat	RV >>>	2	4,4	Positive				
(9) Column agglutination - manual	RV >>>	23	51	Positive				
(722) Antigen M		44			44	43	98	
Samples E1 and S1		44			44	44	100	
(1) Tube test	RV >>>	22	50	Negative				
(2) Microplate - aut.	RV >>>	2	4,5	Negative				
(7) Column agglutination - automat	RV >>>	2	4,5	Negative				
(9) Column agglutination - manual	RV >>>	18	41	Negative				
Samples E2 and S2		44			44	43	98	
(1) Tube test	RV >>>	22	50	Positive				
(2) Microplate - aut.	RV >>>	2	4,5	Positive				
(7) Column agglutination - automat	RV >>>	1	2,3	Negative				
(9) Column agglutination - manual	RV >>>	18	41	Positive				
(723) Antigen N		40			40	39	98	
Samples E1 and S1		40			40	39	98	
(1) Tube test	RV >>>	20	50	Positive				
(2) Microplate - aut.	RV >>>	1	2,5	Positive				
(7) Column agglutination - automat	RV >>>	1	2,5	Negative				
(9) Column agglutination - manual	RV >>>	17	43	Positive				
Samples E2 and S2		40			40	39	98	
(1) Tube test	RV >>>	20	50	Positive				
(2) Microplate - aut.	RV >>>	1	2,5	Positive				
(7) Column agglutination - automat	RV >>>	1	2,5	Negative				
(9) Column agglutination - manual	RV >>>	17	43	Positive				
(724) Antigen S		42			42	41	98	
Samples E1 and S1		42			42	41	98	
(1) Tube test	RV >>>	19	45	Negative				
(2) Microplate - aut.	RV >>>	3	7,1	Negative				
(7) Column agglutination - automat	RV >>>	1	2,4	Negative				
(9) Column agglutination - manual	RV >>>	18	43	Positive				
Samples E2 and S2		42			42	41	98	
(1) Tube test	RV >>>	19	45	Negative				
(2) Microplate - aut.	RV >>>	3	7,1	Negative				
(7) Column agglutination - automat	RV >>>	1	2,4	Negative				
(9) Column agglutination - manual	RV >>>	18	43	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} [%]
(725) Antigen s		42			42	42	100
Samples E1 and S1		42			42	42	100
(1) Tube test	RV >>>	18	43	Positive			
(2) Microplate - aut.	RV >>>	3	7,1	Positive			
(7) Column agglutination - automat	RV >>>	2	4,8	Positive			
(9) Column agglutination - manual	RV >>>	19	45	Positive			
Samples E2 and S2		42			42	42	100
(1) Tube test	RV >>>	18	43	Positive			
(2) Microplate - aut.	RV >>>	3	7,1	Positive			
(7) Column agglutination - automat	RV >>>	2	4,8	Positive			
(9) Column agglutination - manual	RV >>>	19	45	Positive			
(733) Antigen Le^a		36			36	36	100
Samples E1 and S1		36			36	36	100
(1) Tube test	RV >>>	19	53	Negative			
(7) Column agglutination - automat	RV >>>	1	2,8	Negative			
(9) Column agglutination - manual	RV >>>	16	44	Negative			
Samples E2 and S2		36			36	36	100
(1) Tube test	RV >>>	19	53	Negative			
(7) Column agglutination - automat	RV >>>	1	2,8	Negative			
(9) Column agglutination - manual	RV >>>	16	44	Negative			
(734) Antigen Le^b		36			36	36	100
Samples E1 and S1		36			36	36	100
(1) Tube test	RV >>>	19	53	Positive			
(7) Column agglutination - automat	RV >>>	1	2,8	Positive			
(9) Column agglutination - manual	RV >>>	16	44	Positive			
Samples E2 and S2		36			36	36	100
(1) Tube test	RV >>>	19	53	Positive			
(7) Column agglutination - automat	RV >>>	1	2,8	Positive			
(9) Column agglutination - manual	RV >>>	16	44	Positive			
(731) Antigen Lu^a		26			26	24	92
Samples E1 and S1		26			26	24	92
(1) Tube test	RV >>>	6	23	Negative			
(7) Column agglutination - automat	RV >>>	1	3,8	Negative			
(9) Column agglutination - manual	RV >>>	17	65	Negative			
		2	7,7	Positive			
Samples E2 and S2		26			26	26	100
(1) Tube test	RV >>>	6	23	Negative			
(7) Column agglutination - automat	RV >>>	1	3,8	Negative			
(9) Column agglutination - manual	RV >>>	19	73	Negative			
(732) Antigen Lu^b		23			23	23	100
Samples E1 and S1		23			23	23	100
(1) Tube test	RV >>>	7	30	Positive			
(7) Column agglutination - automat	RV >>>	2	8,7	Positive			
(9) Column agglutination - manual	RV >>>	14	61	Positive			
Samples E2 and S2		23			23	23	100
(1) Tube test	RV >>>	7	30	Positive			
(7) Column agglutination - automat	RV >>>	2	8,7	Positive			
(9) Column agglutination - manual	RV >>>	14	61	Positive			
(726) Antigen P1		30			30	29	97
Samples E1 and S1		30			30	29	97
(1) Tube test	RV >>>	20	67	Negative			
		1	3,3	Positive			
(7) Column agglutination - automat	RV >>>	2	6,7	Negative			
(9) Column agglutination - manual	RV >>>	7	23	Negative			
Samples E2 and S2		30			30	30	100
(1) Tube test	RV >>>	21	70	Negative			
(7) Column agglutination - automat	RV >>>	2	6,7	Negative			
(9) Column agglutination - manual	RV >>>	7	23	Negative			
(740) Antigen Wr^a		7			7	7	100
Samples E1 and S1		7			7	7	100
(1) Tube test	RV >>>	4	57	Negative			
(9) Column agglutination - manual	RV >>>	3	43	Negative			
Samples E2 and S2		7			7	7	100
(1) Tube test	RV >>>	4	57	Negative			
(9) Column agglutination - manual	RV >>>	3	43	Negative			
(737) Direct Antiglobulin Test		144			144	143	99
Samples E1 and S1		144			144	143	99
(1) Tube test: IAT	RV >>>	4	2,8	Negative			
(3) Column agglut.: IAT - automat	RV >>>	37	26	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} [%]	
(5) Solid phase	RV >>>	1	0,7	Negative				
(6) Microplate: IAT	RV >>>	1	0,7	Negative				
(8) Column agglut.: IAT - manual	RV >>>	99	69	Negative				
		1	0,7	Positive				
(9) Column agglut.: enzyme - manual	RV >>>	1	0,7	Negative				
Samples E2 and S2		144			144	144	100	
(1) Tube test: IAT	RV >>>	4	2,8	Negative				
(3) Column agglut.: IAT - automat	RV >>>	37	26	Negative				
(5) Solid phase	RV >>>	1	0,7	Negative				
(6) Microplate: IAT	RV >>>	1	0,7	Negative				
(8) Column agglut.: IAT - manual	RV >>>	100	69	Negative				
(9) Column agglut.: enzyme - manual	RV >>>	1	0,7	Negative				
(741) Antierythrocyte antibody screening (IAT, blood donor)		89			89	88	99	
Samples E1 and S1		89			89	88	99	
(1) Tube test: IAT	RV >>>	2	2,2	Positive				
(3) Column agglut.: IAT - automat	RV >>>	25	28	Positive				
(5) Solid phase	RV >>>	16	18	Positive				
(6) Microplate: IAT	RV >>>	2	2,2	Positive				
(8) Column agglut.: IAT - manual	RV >>>	1	1,1	Negative				
	RV >>>	43	48	Positive				
Samples E2 and S2		89			89	89	100	
(1) Tube test: IAT	RV >>>	2	2,2	Positive				
(3) Column agglut.: IAT - automat	RV >>>	25	28	Positive				
(5) Solid phase	RV >>>	16	18	Positive				
(6) Microplate: IAT	RV >>>	2	2,2	Positive				
(8) Column agglut.: IAT - manual	RV >>>	44	49	Positive				
(743) Antierythrocyte antibody screening (IAT, recipient)		157			157	157	100	
Samples E1 and S1		157			157	157	100	
(1) Tube test: IAT	RV >>>	1	0,6	Positive				
(3) Column agglut.: IAT - automat	RV >>>	45	29	Positive				
(5) Solid phase	RV >>>	8	5,1	Positive				
(8) Column agglut.: IAT - manual	RV >>>	103	66	Positive				
Samples E2 and S2		157			157	157	100	
(1) Tube test: IAT	RV >>>	1	0,6	Positive				
(3) Column agglut.: IAT - automat	RV >>>	45	29	Positive				
(5) Solid phase	RV >>>	8	5,1	Positive				
(8) Column agglut.: IAT - manual	RV >>>	103	66	Positive				
(745) Antierythrocyte antibody screening (IAT, pregnant)		125			125	125	100	
Samples E1 and S1		125			125	125	100	
(1) Tube test: IAT	RV >>>	2	1,6	Positive				
(3) Column agglut.: IAT - automat	RV >>>	38	30	Positive				
(5) Solid phase	RV >>>	7	5,6	Positive				
(8) Column agglut.: IAT - manual	RV >>>	78	62	Positive				
Samples E2 and S2		125			125	125	100	
(1) Tube test: IAT	RV >>>	2	1,6	Positive				
(3) Column agglut.: IAT - automat	RV >>>	38	30	Positive				
(5) Solid phase	RV >>>	7	5,6	Positive				
(8) Column agglut.: IAT - manual	RV >>>	78	62	Positive				
(747) Antierythrocyte antibody screening (enzyme test)		111			111	111	100	
Samples E1 and S1		111			111	111	100	
(0) Not specified	>	1	0,9	Negative				
(2) Tube test: enzyme	RV >>>	2	1,8	Positive				
(4) Column agglut.: enzyme - automat	>	2	1,8	Negative				
	RV >>>	27	24	Positive				
(8) Column agglut.: IAT - manual	>	1	0,9	Negative				
	RV >>>	4	3,6	Positive				
(9) Column agglut.: enzyme - manual	>	16	14	Negative				
	RV >>>	58	52	Positive				
Samples E2 and S2		111			111	111	100	
(0) Not specified	RV >>>	1	0,9	Positive				
(2) Tube test: enzyme	RV >>>	2	1,8	Positive				
(4) Column agglut.: enzyme - automat	RV >>>	29	26	Positive				
(8) Column agglut.: IAT - manual	RV >>>	5	4,5	Positive				
(9) Column agglut.: enzyme - manual	RV >>>	74	67	Positive				

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

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} [%]
(750) Antierythrocyte antibody identification		55			55	50	91
Samples E1 and S1		55			55	54	98
(0) Not specified	RV >>>	54	98	anti-K; anti-M			
		1	1,8	anti-M			
Samples E2 and S2		55			55	51	93
(0) Not specified		2	3,6	anti-c			
	RV >>>	51	93	anti-c; anti-Jka			
		1	1,8	anti-c; anti-Jka; anti-P1			
		1	1,8	anti-c; anti-Lea			
(752) Antibody titre, Sample 1: 1st antibody		37			0		
Samples E1 and S1		37			0		
(1) Tube + homozyg. expression	±	2	5,4	titre 32			
(2) Tube + heterozyg. expression	±	3	8,1	titre 16			
	±	1	2,7	titre 32			
(3) Column agglut.+ homozyg. expres.	±	1	2,7	titre 8			
	±	3	8,1	titre 16			
(4) Column agglut.+ heterozyg. expres.	±	6	16	titre 8			
	±	15	41	titre 16			
	±	4	11	titre 32			
	±	1	2,7	titre 64			
(99) Another measurement principle	±	1	2,7	titre 8			
(753) Antibody titre, Sample 1: 2nd antibody		37			0		
Samples E1 and S1		37			0		
(0) Not specified	±	1	2,7	titre 8			
(1) Tube + homozyg. expression	±	1	2,7	titre 16			
	±	1	2,7	titre 32			
(2) Tube + heterozyg. expression	±	1	2,7	titre 4			
	±	1	2,7	titre 32			
(3) Column agglut.+ homozyg. expres.	±	2	5,4	titre 8			
	±	1	2,7	titre 16			
	±	5	14	titre 32			
	±	4	11	titre 64			
(4) Column agglut.+ heterozyg. expres.	±	7	19	titre 4			
	±	3	8,1	titre 8			
	±	4	11	titre 16			
	±	5	14	titre 32			
(99) Another measurement principle	±	1	2,7	titre 0 (not measurable)			
(756) Antibody titre, Sample 2: 1st antibody		36			0		
Samples E2 and S2		36			0		
(1) Tube + homozyg. expression	±	1	2,8	titre 4			
	±	1	2,8	titre 128			
	±	1	2,8	titre 256			
(3) Column agglut.+ homozyg. expres.	±	2	5,6	titre 16			
	±	4	11	titre 32			
	±	2	5,6	titre 64			
	±	3	8,3	titre 128			
(4) Column agglut.+ heterozyg. expres.	±	4	11	titre 8			
	±	5	14	titre 16			
	±	3	8,3	titre 32			
	±	6	17	titre 64			
	±	3	8,3	titre 128			
(99) Another measurement principle	±	1	2,8	titre 8			
(757) Antibody titre, Sample 2: 2nd antibody		34			0		
Samples E2 and S2		34			0		
(0) Not specified	±	1	2,9	titre 4			
(1) Tube + homozyg. expression	±	1	2,9	titre 4			
(2) Tube + heterozyg. expression	±	2	5,9	titre 1			
(3) Column agglut.+ homozyg. expres.	±	4	12	titre 1			
	±	5	15	titre 2			
	±	4	12	titre 4			
	±	2	5,9	titre 8			
(4) Column agglut.+ heterozyg. expres.	±	1	2,9	titre 0 (not measurable)			
	±	3	8,8	titre 1			
	±	3	8,8	titre 2			
	±	3	8,8	titre 4			
	±	1	2,9	titre 8			
	±	2	5,9	titre 16			
	±	1	2,9	titre 64			
(99) Another measurement principle	±	1	2,9	titre 8			

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

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} [%]	
Set 3								
(761) Compatibility test (segment K1)		137				137	136	99
Sample S1		137				137	137	100
(1) Tube test: IAT	RV	>>>	1	0,7	Positive test			
(3) Column agglut.: IAT - automat	RV	>>>	32	23	Positive test			
(5) Solid phase	RV	>>>	4	2,9	Positive test			
(8) Column agglut.: IAT - manual	RV	>>>	98	72	Positive test			
(9) Column agglut.: enzyme - manual	RV	>>>	1	0,7	Positive test			
(99) Another measurement principle	RV	>>>	1	0,7	Positive test			
Sample S2		137				137	136	99
(1) Tube test: IAT	RV	>>>	1	0,7	Positive test			
(3) Column agglut.: IAT - automat	RV	>>>	32	23	Positive test			
(5) Solid phase	RV	>>>	4	2,9	Positive test			
(8) Column agglut.: IAT - manual			1	0,7	Negative test			
	RV	>>>	97	71	Positive test			
(9) Column agglut.: enzyme - manual	RV	>>>	1	0,7	Positive test			
(99) Another measurement principle	RV	>>>	1	0,7	Positive test			
(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode)		138				0		
Sample S1		138				0		
(0) Not specified	±	138	100		Impossible, risk of haemolysis			
Sample S2		138				0		
(0) Not specified	±	137	99		Impossible, risk of haemolysis			
	±	1	0,7		Decision depends on results of other tests not performed in our laboratory			
(764) Compatibility test (segment K2)		137				137	136	99
Sample S1		137				137	136	99
(1) Tube test: IAT	RV	>>>	1	0,7	Negative test			
(3) Column agglut.: IAT - automat	RV	>>>	32	23	Negative test			
(5) Solid phase	RV	>>>	4	2,9	Negative test			
(8) Column agglut.: IAT - manual	RV	>>>	97	71	Negative test			
			1	0,7	Positive test			
(9) Column agglut.: enzyme - manual	RV	>>>	1	0,7	Negative test			
(99) Another measurement principle	RV	>>>	1	0,7	Negative test			
Sample S2		137				137	137	100
(1) Tube test: IAT	RV	>>>	1	0,7	Negative test			
(3) Column agglut.: IAT - automat	RV	>>>	32	23	Negative test			
(5) Solid phase	RV	>>>	4	2,9	Negative test			
(8) Column agglut.: IAT - manual	RV	>>>	98	72	Negative test			
(9) Column agglut.: enzyme - manual	RV	>>>	1	0,7	Negative test			
(99) Another measurement principle	RV	>>>	1	0,7	Negative test			
(765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode)		138				0		
Sample S1		138				0		
(0) Not specified	±	6	4,3		Impossible, risk of haemolysis			
	±	73	53		Decision depends on results of other tests not performed in our laboratory			
	±	43	31		Only if more suitable products are not available			
	±	16	12		Possible			
Sample S2		138				0		
(0) Not specified	±	77	56		Decision depends on results of other tests not performed in our laboratory			
	±	28	20		Only if more suitable products are not available			
	±	33	24		Possible			