

## EQA round: IH2/24 - Blood Group Serology

Deadline: 31.5.2024

Setup: groups - M (measurement principle)

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

N<sub>tot</sub> = total number of the results  
 N<sub>rel</sub> = relative number of the results

N<sub>eva</sub> = number of the results assessed  
 N<sub>suc</sub> = number of successful results  
 S<sub>rel</sub> = relative success

Test Sample Group	Frequency of the results				Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
<b>Set 1 and 2</b>							
(700) <b>ABO blood group</b>		159			159	158	99
<b>Samples E1 and S1</b>		159			159	159	100
(1) Tube test	RV >>>	49	31	Blood group: A			
(2) Microplate - aut.	>	1	0,6	Not specified			
(3) Microplate - man.	RV >>>	12	7,5	Blood group: A			
(7) Column agglutination - automat	>	3	1,9	Not specified			
(9) Column agglutination - manual	RV >>>	48	30	Blood group: A			
(10) Solid phase	>	4	2,5	Not specified			
	RV >>>	35	22	Blood group: A			
	RV >>>	2	1,3	Blood group: A			
<b>Samples E2 and S2</b>		159			159	158	99
(1) Tube test	RV >>>	49	31	Blood group: AB			
(2) Microplate - aut.	RV >>>	13	8,2	Blood group: AB			
(3) Microplate - man.	RV >>>	5	3,1	Blood group: AB			
(7) Column agglutination - automat	RV >>>	51	32	Blood group: AB			
(9) Column agglutination - manual		1	0,6	Blood group: A			
(10) Solid phase	RV >>>	38	24	Blood group: AB			
	RV >>>	2	1,3	Blood group: AB			
(703) <b>A subgroup</b>		47			47	43	91
<b>Samples E1 and S1</b>		47			47	47	100
(0) Not specified	RV >>>	47	100	A subgroup A1			
<b>Samples E2 and S2</b>		47			47	43	91
(0) Not specified		2	4,3	Not specified			
	RV >>>	43	91	A subgroup A1			
		2	4,3	A subgroup A2			
(705) <b>Rh D antigen (blood-donor)</b>		90			90	90	100
<b>Samples E1 and S1</b>		90			90	90	100
(1) Tube test	RV >>>	26	29	Negative (RhD-)			
(2) Microplate - aut.	RV >>>	15	17	Negative (RhD-)			
(3) Microplate - man.	RV >>>	2	2,2	Negative (RhD-)			
(7) Column agglutination - automat	RV >>>	27	30	Negative (RhD-)			
(9) Column agglutination - manual	RV >>>	18	20	Negative (RhD-)			
(10) Solid phase	RV >>>	2	2,2	Negative (RhD-)			
<b>Samples E2 and S2</b>		90			90	90	100
(1) Tube test	RV >>>	26	29	Positive (RhD+)			
(2) Microplate - aut.	RV >>>	15	17	Positive (RhD+)			
(3) Microplate - man.	RV >>>	2	2,2	Positive (RhD+)			
(7) Column agglutination - automat	RV >>>	27	30	Positive (RhD+)			
(9) Column agglutination - manual	RV >>>	18	20	Positive (RhD+)			
(10) Solid phase	RV >>>	2	2,2	Positive (RhD+)			
(709) <b>Rh D antigen (recipient/ pregnant/ newborn)</b>		152			152	152	100
<b>Samples E1 and S1</b>		152			152	152	100
(1) Tube test	RV >>>	51	34	Negative (RhD-)			
(2) Microplate - aut.	RV >>>	11	7,2	Negative (RhD-)			
(3) Microplate - man.	RV >>>	4	2,6	Negative (RhD-)			
(7) Column agglutination - automat	RV >>>	48	32	Negative (RhD-)			
(9) Column agglutination - manual	RV >>>	37	24	Negative (RhD-)			
(10) Solid phase	RV >>>	1	0,7	Negative (RhD-)			
<b>Samples E2 and S2</b>		152			152	152	100
(1) Tube test	RV >>>	51	34	Positive (RhD+)			
(2) Microplate - aut.	RV >>>	11	7,2	Positive (RhD+)			
(3) Microplate - man.	RV >>>	4	2,6	Positive (RhD+)			
(7) Column agglutination - automat	RV >>>	48	32	Positive (RhD+)			
(9) Column agglutination - manual	RV >>>	37	24	Positive (RhD+)			
(10) Solid phase	RV >>>	1	0,7	Positive (RhD+)			
(715) <b>Antigen C</b>		84			84	84	100
<b>Samples E1 and S1</b>		84			84	84	100
(1) Tube test	RV >>>	14	17	Positive			
(2) Microplate - aut.	RV >>>	9	11	Positive			
(3) Microplate - man.	RV >>>	1	1,2	Positive			
(7) Column agglutination - automat	RV >>>	24	29	Positive			

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	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	
(9) Column agglutination - manual	RV	>>>	33	39	Positive			
(10) Solid phase	RV	>>>	3	3,6	Positive			
<b>Samples E2 and S2</b>			84			84	84	100
(1) Tube test	RV	>>>	14	17	Positive			
(2) Microplate - aut.	RV	>>>	9	11	Positive			
(3) Microplate - man.	RV	>>>	1	1,2	Positive			
(7) Column agglutination - automat	RV	>>>	24	29	Positive			
(9) Column agglutination - manual	RV	>>>	33	39	Positive			
(10) Solid phase	RV	>>>	3	3,6	Positive			
<b>(716) Antigen c</b>			84			84	84	100
<b>Samples E1 and S1</b>			84			84	84	100
(1) Tube test	RV	>>>	14	17	Positive			
(2) Microplate - aut.	RV	>>>	9	11	Positive			
(3) Microplate - man.	RV	>>>	1	1,2	Positive			
(7) Column agglutination - automat	RV	>>>	24	29	Positive			
(9) Column agglutination - manual	RV	>>>	33	39	Positive			
(10) Solid phase	RV	>>>	3	3,6	Positive			
<b>Samples E2 and S2</b>			84			84	84	100
(1) Tube test	RV	>>>	14	17	Negative			
(2) Microplate - aut.	RV	>>>	9	11	Negative			
(3) Microplate - man.	RV	>>>	1	1,2	Negative			
(7) Column agglutination - automat	RV	>>>	24	29	Negative			
(9) Column agglutination - manual	RV	>>>	33	39	Negative			
(10) Solid phase	RV	>>>	3	3,6	Negative			
<b>(718) Antigen E</b>			85			85	84	99
<b>Samples E1 and S1</b>			85			85	84	99
(1) Tube test	RV	>>>	15	18	Negative			
(2) Microplate - aut.	RV	>>>	9	11	Negative			
(3) Microplate - man.	RV	>>>	1	1,2	Negative			
(7) Column agglutination - automat	RV	>>>	23	27	Negative			
			1	1,2	Positive			
(9) Column agglutination - manual	RV	>>>	33	39	Negative			
(10) Solid phase	RV	>>>	3	3,5	Negative			
<b>Samples E2 and S2</b>			85			85	85	100
(1) Tube test	RV	>>>	15	18	Negative			
(2) Microplate - aut.	RV	>>>	9	11	Negative			
(3) Microplate - man.	RV	>>>	1	1,2	Negative			
(7) Column agglutination - automat	RV	>>>	24	28	Negative			
(9) Column agglutination - manual	RV	>>>	33	39	Negative			
(10) Solid phase	RV	>>>	3	3,5	Negative			
<b>(719) Antigen e</b>			84			84	84	100
<b>Samples E1 and S1</b>			84			84	84	100
(1) Tube test	RV	>>>	14	17	Positive			
(2) Microplate - aut.	RV	>>>	9	11	Positive			
(3) Microplate - man.	RV	>>>	1	1,2	Positive			
(7) Column agglutination - automat	RV	>>>	24	29	Positive			
(9) Column agglutination - manual	RV	>>>	33	39	Positive			
(10) Solid phase	RV	>>>	3	3,6	Positive			
<b>Samples E2 and S2</b>			84			84	84	100
(1) Tube test	RV	>>>	14	17	Positive			
(2) Microplate - aut.	RV	>>>	9	11	Positive			
(3) Microplate - man.	RV	>>>	1	1,2	Positive			
(7) Column agglutination - automat	RV	>>>	24	29	Positive			
(9) Column agglutination - manual	RV	>>>	33	39	Positive			
(10) Solid phase	RV	>>>	3	3,6	Positive			
<b>(717) Antigen C<sup>w</sup></b>			74			74	74	100
<b>Samples E1 and S1</b>			74			74	74	100
(1) Tube test	RV	>>>	19	26	Negative			
(2) Microplate - aut.	RV	>>>	8	11	Negative			
(3) Microplate - man.	RV	>>>	1	1,4	Negative			
(7) Column agglutination - automat	RV	>>>	19	26	Negative			
(9) Column agglutination - manual	RV	>>>	24	32	Negative			
(10) Solid phase	RV	>>>	3	4,1	Negative			
<b>Samples E2 and S2</b>			74			74	74	100
(1) Tube test	RV	>>>	19	26	Negative			
(2) Microplate - aut.	RV	>>>	8	11	Negative			
(3) Microplate - man.	RV	>>>	1	1,4	Negative			
(7) Column agglutination - automat	RV	>>>	19	26	Negative			
(9) Column agglutination - manual	RV	>>>	24	32	Negative			

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	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	
(10) Solid phase	RV	>>>	3	4,1	Negative			
<b>(720) Antigen K</b>			91			91	91	100
<b>Samples E1 and S1</b>			91			91	91	100
(1) Tube test	RV	>>>	15	16	Negative			
(2) Microplate - aut.	RV	>>>	9	9,9	Negative			
(3) Microplate - man.	RV	>>>	1	1,1	Negative			
(7) Column agglutination - automat	RV	>>>	27	30	Negative			
(9) Column agglutination - manual	RV	>>>	36	40	Negative			
(10) Solid phase	RV	>>>	3	3,3	Negative			
<b>Samples E2 and S2</b>			91			91	91	100
(1) Tube test	RV	>>>	15	16	Negative			
(2) Microplate - aut.	RV	>>>	9	9,9	Negative			
(3) Microplate - man.	RV	>>>	1	1,1	Negative			
(7) Column agglutination - automat	RV	>>>	27	30	Negative			
(9) Column agglutination - manual	RV	>>>	36	40	Negative			
(10) Solid phase	RV	>>>	3	3,3	Negative			
<b>(721) Antigen k</b>			45			45	45	100
<b>Samples E1 and S1</b>			45			45	45	100
(1) Tube test	RV	>>>	25	56	Positive			
(7) Column agglutination - automat	RV	>>>	4	8,9	Positive			
(9) Column agglutination - manual	RV	>>>	14	31	Positive			
(10) Solid phase	RV	>>>	2	4,4	Positive			
<b>Samples E2 and S2</b>			45			45	45	100
(1) Tube test	RV	>>>	25	56	Positive			
(7) Column agglutination - automat	RV	>>>	4	8,9	Positive			
(9) Column agglutination - manual	RV	>>>	14	31	Positive			
(10) Solid phase	RV	>>>	2	4,4	Positive			
<b>(738) Antigen Kp<sup>a</sup></b>			15			15	15	100
<b>Samples E1 and S1</b>			15			15	15	100
(1) Tube test	RV	>>>	7	47	Negative			
(9) Column agglutination - manual	RV	>>>	8	53	Negative			
<b>Samples E2 and S2</b>			15			15	15	100
(1) Tube test	RV	>>>	7	47	Negative			
(9) Column agglutination - manual	RV	>>>	8	53	Negative			
<b>(739) Antigen Kp<sup>b</sup></b>			8			8	8	100
<b>Samples E1 and S1</b>			8			8	8	100
(1) Tube test	RV	>>>	4	50	Positive			
(9) Column agglutination - manual	RV	>>>	4	50	Positive			
<b>Samples E2 and S2</b>			8			8	8	100
(1) Tube test	RV	>>>	4	50	Positive			
(9) Column agglutination - manual	RV	>>>	4	50	Positive			
<b>(729) Antigen Jk<sup>a</sup></b>			40			40	40	100
<b>Samples E1 and S1</b>			40			40	40	100
(1) Tube test	RV	>>>	19	48	Positive			
(2) Microplate - aut.	RV	>>>	2	5	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,5	Positive			
(9) Column agglutination - manual	RV	>>>	16	40	Positive			
<b>Samples E2 and S2</b>			40			40	40	100
(1) Tube test	RV	>>>	19	48	Positive			
(2) Microplate - aut.	RV	>>>	2	5	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,5	Positive			
(9) Column agglutination - manual	RV	>>>	16	40	Positive			
<b>(730) Antigen Jk<sup>b</sup></b>			40			40	38	95
<b>Samples E1 and S1</b>			40			40	38	95
(1) Tube test	RV	>>>	19	48	Positive			
(2) Microplate - aut.	RV	>>>	2	5	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,5	Positive			
(9) Column agglutination - manual			2	5	Negative			
	RV	>>>	14	35	Positive			
<b>Samples E2 and S2</b>			40			40	40	100
(1) Tube test	RV	>>>	19	48	Negative			
(2) Microplate - aut.	RV	>>>	2	5	Negative			
(7) Column agglutination - automat	RV	>>>	3	7,5	Negative			
(9) Column agglutination - manual	RV	>>>	16	40	Negative			
<b>(727) Antigen Fy<sup>a</sup></b>			41			41	41	100
<b>Samples E1 and S1</b>			41			41	41	100
(1) Tube test	RV	>>>	15	37	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,3	Positive			
(9) Column agglutination - manual	RV	>>>	21	51	Positive			

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Test Sample Group	Frequency of the results					Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	
(10) Solid phase	RV	>>>	2	4,9	Positive			
<b>Samples E2 and S2</b>			41			41	41	100
(1) Tube test	RV	>>>	15	37	Negative			
(7) Column agglutination - automat	RV	>>>	3	7,3	Negative			
(9) Column agglutination - manual	RV	>>>	21	51	Negative			
(10) Solid phase	RV	>>>	2	4,9	Negative			
<b>(728) Antigen Fy<sup>b</sup></b>			41			41	40	98
<b>Samples E1 and S1</b>			41			41	41	100
(1) Tube test	RV	>>>	15	37	Positive			
(2) Microplate - aut.	RV	>>>	2	4,9	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,3	Positive			
(9) Column agglutination - manual	RV	>>>	21	51	Positive			
<b>Samples E2 and S2</b>			41			41	40	98
(1) Tube test			1	2,4	Negative			
	RV	>>>	14	34	Positive			
(2) Microplate - aut.	RV	>>>	2	4,9	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,3	Positive			
(9) Column agglutination - manual	RV	>>>	21	51	Positive			
<b>(722) Antigen M</b>			39			39	39	100
<b>Samples E1 and S1</b>			39			39	39	100
(1) Tube test	RV	>>>	19	49	Positive			
(2) Microplate - aut.	RV	>>>	2	5,1	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,7	Positive			
(9) Column agglutination - manual	RV	>>>	15	38	Positive			
<b>Samples E2 and S2</b>			39			39	39	100
(1) Tube test	RV	>>>	19	49	Negative			
(2) Microplate - aut.	RV	>>>	2	5,1	Negative			
(7) Column agglutination - automat	RV	>>>	3	7,7	Negative			
(9) Column agglutination - manual	RV	>>>	15	38	Negative			
<b>(723) Antigen N</b>			37			37	35	95
<b>Samples E1 and S1</b>			37			37	37	100
(1) Tube test	RV	>>>	17	46	Negative			
(2) Microplate - aut.	RV	>>>	1	2,7	Negative			
(7) Column agglutination - automat	RV	>>>	3	8,1	Negative			
(9) Column agglutination - manual	RV	>>>	16	43	Negative			
<b>Samples E2 and S2</b>			37			37	35	95
(1) Tube test			2	5,4	Negative			
	RV	>>>	15	41	Positive			
(2) Microplate - aut.	RV	>>>	1	2,7	Positive			
(7) Column agglutination - automat	RV	>>>	3	8,1	Positive			
(9) Column agglutination - manual	RV	>>>	16	43	Positive			
<b>(724) Antigen S</b>			39			39	38	97
<b>Samples E1 and S1</b>			39			39	39	100
(1) Tube test	RV	>>>	17	44	Positive			
(2) Microplate - aut.	RV	>>>	2	5,1	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,7	Positive			
(9) Column agglutination - manual	RV	>>>	17	44	Positive			
<b>Samples E2 and S2</b>			39			39	38	97
(1) Tube test	RV	>>>	17	44	Negative			
(2) Microplate - aut.	RV	>>>	2	5,1	Negative			
(7) Column agglutination - automat	RV	>>>	3	7,7	Negative			
(9) Column agglutination - manual	RV	>>>	16	41	Negative			
			1	2,6	Positive			
<b>(725) Antigen s</b>			40			40	39	98
<b>Samples E1 and S1</b>			40			40	40	100
(1) Tube test	RV	>>>	18	45	Negative			
(2) Microplate - aut.	RV	>>>	2	5	Negative			
(7) Column agglutination - automat	RV	>>>	3	7,5	Negative			
(9) Column agglutination - manual	RV	>>>	17	43	Negative			
<b>Samples E2 and S2</b>			40			40	39	98
(1) Tube test			1	2,5	Negative			
	RV	>>>	17	43	Positive			
(2) Microplate - aut.	RV	>>>	2	5	Positive			
(7) Column agglutination - automat	RV	>>>	3	7,5	Positive			
(9) Column agglutination - manual	RV	>>>	17	43	Positive			
<b>(733) Antigen Le<sup>a</sup></b>			31			31	31	100
<b>Samples E1 and S1</b>			31			31	31	100
(1) Tube test	RV	>>>	14	45	Negative			
(7) Column agglutination - automat	RV	>>>	2	6,5	Negative			

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(9) Column agglutination - manual	RV	>>>	15	48	Negative		
<b>Samples E2 and S2</b>			31			31	31
(1) Tube test	RV	>>>	14	45	Positive		
(7) Column agglutination - automat	RV	>>>	2	6,5	Positive		
(9) Column agglutination - manual	RV	>>>	15	48	Positive		
<b>(734) Antigen Le<sup>p</sup></b>			30			30	29
<b>Samples E1 and S1</b>			30			30	29
(1) Tube test	RV	>>>	14	47	Positive		
(7) Column agglutination - automat	RV	>>>	2	6,7	Positive		
(9) Column agglutination - manual			1	3,3	Negative		
	RV	>>>	13	43	Positive		
<b>Samples E2 and S2</b>			30			30	30
(1) Tube test	RV	>>>	14	47	Negative		
(7) Column agglutination - automat	RV	>>>	2	6,7	Negative		
(9) Column agglutination - manual	RV	>>>	14	47	Negative		
<b>(731) Antigen Lu<sup>a</sup></b>			25			25	25
<b>Samples E1 and S1</b>			25			25	25
(1) Tube test	RV	>>>	6	24	Negative		
(7) Column agglutination - automat	RV	>>>	2	8	Negative		
(9) Column agglutination - manual	RV	>>>	17	68	Negative		
<b>Samples E2 and S2</b>			25			25	25
(1) Tube test	RV	>>>	6	24	Negative		
(7) Column agglutination - automat	RV	>>>	2	8	Negative		
(9) Column agglutination - manual	RV	>>>	17	68	Negative		
<b>(732) Antigen Lu<sup>b</sup></b>			23			23	23
<b>Samples E1 and S1</b>			23			23	23
(1) Tube test	RV	>>>	8	35	Positive		
(7) Column agglutination - automat	RV	>>>	3	13	Positive		
(9) Column agglutination - manual	RV	>>>	12	52	Positive		
<b>Samples E2 and S2</b>			23			23	23
(1) Tube test	RV	>>>	8	35	Positive		
(7) Column agglutination - automat	RV	>>>	3	13	Positive		
(9) Column agglutination - manual	RV	>>>	12	52	Positive		
<b>(726) Antigen P1</b>			27			27	25
<b>Samples E1 and S1</b>			27			27	27
(1) Tube test	RV	>>>	1	3,7	Negative		
	RV	>>>	18	67	Positive		
(7) Column agglutination - automat	RV	>>>	3	11	Positive		
(9) Column agglutination - manual	RV	>>>	5	19	Positive		
<b>Samples E2 and S2</b>			27			27	25
(1) Tube test			2	7,4	Negative		
	RV	>>>	17	63	Positive		
(7) Column agglutination - automat	RV	>>>	3	11	Positive		
(9) Column agglutination - manual	RV	>>>	5	19	Positive		
<b>(740) Antigen Wr<sup>a</sup></b>			8			8	8
<b>Samples E1 and S1</b>			8			8	8
(1) Tube test	RV	>>>	4	50	Negative		
(9) Column agglutination - manual	RV	>>>	4	50	Negative		
<b>Samples E2 and S2</b>			8			8	8
(1) Tube test	RV	>>>	4	50	Negative		
(9) Column agglutination - manual	RV	>>>	4	50	Negative		
<b>(737) Direct Coombs (antiglobulin) test</b>			129			129	129
<b>Samples E1 and S1</b>			129			129	129
(1) Tube test: IAT	RV	>>>	4	3,1	Negative		
(3) Column agglut.: IAT - automat	RV	>>>	34	26	Negative		
(5) Solid phase	RV	>>>	1	0,8	Negative		
(6) Microplate: IAT	RV	>>>	1	0,8	Negative		
(8) Column agglut.: IAT - manual	RV	>>>	87	67	Negative		
(9) Column agglut.: enzyme - manual	RV	>>>	2	1,6	Negative		
<b>Samples E2 and S2</b>			129			129	129
(1) Tube test: IAT	RV	>>>	4	3,1	Negative		
(3) Column agglut.: IAT - automat	RV	>>>	34	26	Negative		
(5) Solid phase	RV	>>>	1	0,8	Negative		
(6) Microplate: IAT	RV	>>>	1	0,8	Negative		
(8) Column agglut.: IAT - manual	RV	>>>	87	67	Negative		
(9) Column agglut.: enzyme - manual	RV	>>>	2	1,6	Negative		
<b>(741) Antibody screening (IAT, blood donor)</b>			82			82	82
<b>Samples E1 and S1</b>			82			82	82
(1) Tube test: IAT	RV	>>>	1	1,2	Positive		

## EQA round: IH2/24 - Blood Group Serology

Deadline: 31.5.2024

Setup: groups - M (measurement principle)

Test Sample Group	Frequency of the results					Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	
(3) Column agglut.: IAT - automat	RV >>>	24	29	Positive				
(5) Solid phase	RV >>>	15	18	Positive				
(6) Microplate: IAT	RV >>>	2	2,4	Positive				
(8) Column agglut.: IAT - manual	RV >>>	40	49	Positive				
<b>Samples E2 and S2</b>		82			82	82	100	
(1) Tube test: IAT	RV >>>	1	1,2	Positive				
(3) Column agglut.: IAT - automat	RV >>>	24	29	Positive				
(5) Solid phase	RV >>>	15	18	Positive				
(6) Microplate: IAT	RV >>>	2	2,4	Positive				
(8) Column agglut.: IAT - manual	RV >>>	40	49	Positive				
<b>(743) Antibody screening (IAT, recipient)</b>		143			143	143	100	
<b>Samples E1 and S1</b>		143			143	143	100	
(1) Tube test: IAT	RV >>>	1	0,7	Positive				
(3) Column agglut.: IAT - automat	RV >>>	43	30	Positive				
(5) Solid phase	RV >>>	7	4,9	Positive				
(8) Column agglut.: IAT - manual	RV >>>	92	64	Positive				
<b>Samples E2 and S2</b>		143			143	143	100	
(1) Tube test: IAT	RV >>>	1	0,7	Positive				
(3) Column agglut.: IAT - automat	RV >>>	43	30	Positive				
(5) Solid phase	RV >>>	7	4,9	Positive				
(8) Column agglut.: IAT - manual	RV >>>	92	64	Positive				
<b>(745) Antibody screening (IAT, pregnant)</b>		117			117	117	100	
<b>Samples E1 and S1</b>		117			117	117	100	
(1) Tube test: IAT	RV >>>	2	1,7	Positive				
(3) Column agglut.: IAT - automat	RV >>>	39	33	Positive				
(5) Solid phase	RV >>>	6	5,1	Positive				
(8) Column agglut.: IAT - manual	RV >>>	70	60	Positive				
<b>Samples E2 and S2</b>		117			117	117	100	
(1) Tube test: IAT	RV >>>	2	1,7	Positive				
(3) Column agglut.: IAT - automat	RV >>>	39	33	Positive				
(5) Solid phase	RV >>>	6	5,1	Positive				
(8) Column agglut.: IAT - manual	RV >>>	70	60	Positive				
<b>(747) Antibody screening (enzyme test)</b>		107			107	105	98	
<b>Samples E1 and S1</b>		107			107	106	99	
(2) Tube test: enzyme	RV >>>	1	0,9	Negative				
(3) Column agglut.: IAT - automat	RV >>>	1	0,9	Negative				
(4) Column agglut.: enzyme - automat	RV >>>	29	27	Negative				
	RV >>>	1	0,9	Positive				
(8) Column agglut.: IAT - manual	RV >>>	4	3,7	Negative				
	RV >>>	2	1,9	Positive				
(9) Column agglut.: enzyme - manual		1	0,9	Not specified				
	RV >>>	48	45	Negative				
	RV >>>	20	19	Positive				
<b>Samples E2 and S2</b>		107			107	106	99	
(2) Tube test: enzyme	RV >>>	1	0,9	Negative				
(3) Column agglut.: IAT - automat	RV >>>	1	0,9	Negative				
(4) Column agglut.: enzyme - automat	RV >>>	30	28	Negative				
(8) Column agglut.: IAT - manual	RV >>>	6	5,6	Negative				
(9) Column agglut.: enzyme - manual	RV >>>	68	64	Negative				
		1	0,9	Positive				
<b>(750) Antibody identification</b>		54			54	54	100	
<b>Samples E1 and S1</b>		54			54	54	100	
(0) Not specified	RV >>>	54	100	anti-s				
<b>Samples E2 and S2</b>		54			54	54	100	
(0) Not specified	RV >>>	54	100	anti-Fya				
<b>(752) Antibody titre, Sample 1: 1st antibody</b>		36			0			
<b>Samples E1 and S1</b>		36			0			
(1) Tube + homozyg. expression	±	1	2,8	titre 16				
	±	1	2,8	titre 32				
	±	1	2,8	titre 128				
(2) Tube + heterozyg. expression	±	1	2,8	titre 32				
(3) Column agglut. + homozyg. expres.	±	3	8,3	titre 16				
(4) Column agglut. + heterozyg. expres.	±	3	8,3	titre 4				
	±	6	17	titre 8				
	±	12	33	titre 16				
	±	3	8,3	titre 32				
	±	4	11	titre 64				
(99) Another measurement principle	±	1	2,8	titre 4				

## EQA round: IH2/24 - Blood Group Serology

Deadline: 31.5.2024

Setup: groups - M (measurement principle)

Test Sample Group	Frequency of the results				Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
<b>(756) Antibody titre, Sample 2: 1st antibody</b>		36				0	
<b>Samples E2 and S2</b>		36				0	
(1) Tube + homozyg. expression	±	2	5,6	titre 128			
	±	2	5,6	titre 256			
(3) Column agglut.+ homozyg. expres.	±	1	2,8	titre 16			
	±	1	2,8	titre 64			
	±	2	5,6	titre 128			
	±	1	2,8	titre 256			
(4) Column agglut.+ heterozyg. expres.	±	3	8,3	titre 32			
	±	8	22	titre 64			
	±	10	28	titre 128			
	±	3	8,3	titre 256			
	±	2	5,6	titre 512			
(99) Another measurement principle	±	1	2,8	titre 32			
<b>Set 3</b>							
<b>(761) Crossmatch (segment K1)</b>		129			129	129	100
<b>Sample S1</b>		129			129	129	100
(1) Tube test: IAT	RV >>>	1	0,8	Negative test			
(3) Column agglut.: IAT - automat	RV >>>	32	25	Negative test			
(5) Solid phase	RV >>>	3	2,3	Negative test			
(8) Column agglut.: IAT - manual	RV >>>	91	71	Negative test			
(9) Column agglut.: enzyme - manual	RV >>>	1	0,8	Negative test			
(99) Another measurement principle	RV >>>	1	0,8	Negative test			
<b>Sample S2</b>		129			129	129	100
(1) Tube test: IAT	RV >>>	1	0,8	Positive test			
(3) Column agglut.: IAT - automat	RV >>>	32	25	Positive test			
(5) Solid phase	RV >>>	3	2,3	Positive test			
(8) Column agglut.: IAT - manual	RV >>>	91	71	Positive test			
(9) Column agglut.: enzyme - manual	RV >>>	1	0,8	Positive test			
(99) Another measurement principle	RV >>>	1	0,8	Positive test			
<b>(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode)</b>		129				0	
<b>Sample S1</b>		129				0	
(0) Not specified	±	22	17	Impossible, risk of haemolysis			
	±	62	48	Decision depends on results of other tests not performed in our laboratory			
	±	37	29	Only if more suitable products are not available			
	±	8	6,2	Possible			
<b>Sample S2</b>		129				0	
(0) Not specified	±	129	100	Impossible, risk of haemolysis			
<b>(764) Crossmatch (segment K2)</b>		129			129	129	100
<b>Sample S1</b>		129			129	129	100
(1) Tube test: IAT	RV >>>	1	0,8	Positive test			
(3) Column agglut.: IAT - automat	RV >>>	32	25	Positive test			
(5) Solid phase	RV >>>	3	2,3	Positive test			
(8) Column agglut.: IAT - manual	RV >>>	91	71	Positive test			
(9) Column agglut.: enzyme - manual	RV >>>	1	0,8	Positive test			
(99) Another measurement principle	RV >>>	1	0,8	Positive test			
<b>Sample S2</b>		129			129	129	100
(1) Tube test: IAT	RV >>>	1	0,8	Negative test			
(3) Column agglut.: IAT - automat	RV >>>	32	25	Negative test			
(5) Solid phase	RV >>>	3	2,3	Negative test			
(8) Column agglut.: IAT - manual	RV >>>	91	71	Negative test			
(9) Column agglut.: enzyme - manual	RV >>>	1	0,8	Negative test			
(99) Another measurement principle	RV >>>	1	0,8	Negative test			
<b>(765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode)</b>		129				0	
<b>Sample S1</b>		129				0	
(0) Not specified	±	129	100	Impossible, risk of haemolysis			
<b>Sample S2</b>		129				0	
(0) Not specified	±	2	1,6	Impossible, risk of haemolysis			
	±	67	52	Decision depends on results of other tests not performed in our laboratory			
	±	39	30	Only if more suitable products are not available			
	±	21	16	Possible			