

EQA round: IH1/24 - Blood Group Serology

Deadline: 8.3.2024

Setup: Slovakia

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) AB0 blood group		69			69	69	100
Samples E1 and S1		69			69	69	100
All results	RV >>>	69	100	Blood group: A			
Samples E2 and S2		69			69	69	100
All results	RV >>>	69	100	Blood group: 0			
(703) A subgroup		15			15	15	100
Samples E1 and S1		15			15	15	100
All results	RV >>>	15	100	A subgroup A1			
Samples E2 and S2		15			15	15	100
All results	RV >>>	15	100	Not specified			
(705) Rh D antigen (blood-donor)		44			44	31	70
Samples E1 and S1		44			44	44	100
All results	RV >>>	44	100	Positive (RhD+)			
Samples E2 and S2		44			44	31	70
All results		1	2,3	Not specified			
		12	27	Negative (RhD-)			
	>	16	36	Positive (RhD+)			
	RV >>>	15	34	w/v (RhD weak/variant)			
(709) Rh D antigen (recipient/ pregnant/ newborn)		66			66	65	98
Samples E1 and S1		66			66	66	100
All results	RV >>>	66	100	Positive (RhD+)			
Samples E2 and S2		66			66	65	98
All results	RV >>>	60	91	Negative (RhD-)			
		1	1,5	Positive (RhD+)			
	RV >>>	5	7,6	w/v (RhD weak/variant)			
(715) Antigen C		38			38	38	100
Samples E1 and S1		38			38	38	100
All results	RV >>>	38	100	Positive			
Samples E2 and S2		38			38	38	100
All results	RV >>>	38	100	Positive			
(716) Antigen c		38			38	38	100
Samples E1 and S1		38			38	38	100
All results	RV >>>	38	100	Positive			
Samples E2 and S2		38			38	38	100
All results	RV >>>	38	100	Positive			
(718) Antigen E		39			39	39	100
Samples E1 and S1		39			39	39	100
All results	RV >>>	39	100	Negative			
Samples E2 and S2		39			39	39	100
All results	RV >>>	39	100	Negative			
(719) Antigen e		38			38	38	100
Samples E1 and S1		38			38	38	100
All results	RV >>>	38	100	Positive			
Samples E2 and S2		38			38	38	100
All results	RV >>>	38	100	Positive			
(717) Antigen C^w		27			27	27	100
Samples E1 and S1		27			27	27	100
All results	RV >>>	27	100	Negative			
Samples E2 and S2		27			27	27	100
All results	RV >>>	27	100	Negative			
(720) Antigen K		42			42	42	100
Samples E1 and S1		42			42	42	100
All results	RV >>>	42	100	Negative			
Samples E2 and S2		42			42	42	100
All results	RV >>>	42	100	Negative			
(721) Antigen k		11			11	11	100
Samples E1 and S1		11			11	11	100
All results	RV >>>	11	100	Positive			
Samples E2 and S2		11			11	11	100
All results	RV >>>	11	100	Positive			

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(738) Antigen Kp^a		8			8	8	100	
Samples E1 and S1		8			8	8	100	
All results	RV >>>	8	100	Negative				
Samples E2 and S2		8			8	8	100	
All results	RV >>>	8	100	Negative				
(739) Antigen Kp^b		6			6	6	100	
Samples E1 and S1		6			6	6	100	
All results	RV >>>	6	100	Positive				
Samples E2 and S2		6			6	6	100	
All results	RV >>>	6	100	Positive				
(729) Antigen Jk^a		18			18	18	100	
Samples E1 and S1		18			18	18	100	
All results	RV >>>	18	100	Negative				
Samples E2 and S2		18			18	18	100	
All results	RV >>>	18	100	Positive				
(730) Antigen Jk^b		18			18	18	100	
Samples E1 and S1		18			18	18	100	
All results	RV >>>	18	100	Positive				
Samples E2 and S2		18			18	18	100	
All results	RV >>>	18	100	Negative				
(727) Antigen Fy^a		18			18	17	94	
Samples E1 and S1		18			18	18	100	
All results	RV >>>	18	100	Positive				
Samples E2 and S2		18			18	17	94	
All results	RV >>>	1	5,6	Negative				
		17	94	Positive				
(728) Antigen Fy^b		18			18	18	100	
Samples E1 and S1		18			18	18	100	
All results	RV >>>	18	100	Negative				
Samples E2 and S2		18			18	18	100	
All results	RV >>>	18	100	Positive				
(722) Antigen M		18			18	18	100	
Samples E1 and S1		18			18	18	100	
All results	RV >>>	18	100	Positive				
Samples E2 and S2		18			18	18	100	
All results	RV >>>	18	100	Positive				
(723) Antigen N		18			18	16	89	
Samples E1 and S1		18			18	17	94	
All results	RV >>>	1	5,6	Negative				
		17	94	Positive				
Samples E2 and S2		18			18	17	94	
All results	RV >>>	1	5,6	Negative				
		17	94	Positive				
(724) Antigen S		18			18	18	100	
Samples E1 and S1		18			18	18	100	
All results	RV >>>	18	100	Positive				
Samples E2 and S2		18			18	18	100	
All results	RV >>>	18	100	Positive				
(725) Antigen s		17			17	17	100	
Samples E1 and S1		17			17	17	100	
All results	RV >>>	17	100	Positive				
Samples E2 and S2		17			17	17	100	
All results	RV >>>	17	100	Negative				
(733) Antigen Le^a		18			18	18	100	
Samples E1 and S1		18			18	18	100	
All results	RV >>>	18	100	Negative				
Samples E2 and S2		18			18	18	100	
All results	RV >>>	18	100	Positive				
(734) Antigen Le^b		18			18	17	94	
Samples E1 and S1		18			18	17	94	
All results	RV >>>	1	5,6	Negative				
		17	94	Positive				
Samples E2 and S2		18			18	18	100	
All results	RV >>>	18	100	Negative				
(731) Antigen Lu^a		15			15	14	93	
Samples E1 and S1		15			15	14	93	
All results	RV >>>	1	6,7	Negative				
		14	93	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		15			15	14	93	
All results	RV >>>	14	93	Negative				
		1	6,7	Positive				
(732) Antigen Lu^b		15			15	15	100	
Samples E1 and S1		15			15	15	100	
All results	RV >>>	15	100	Positive				
Samples E2 and S2		15			15	15	100	
All results	RV >>>	15	100	Positive				
(726) Antigen P1		12			12	11	92	
Samples E1 and S1		12			12	12	100	
All results	RV >>>	12	100	Negative				
Samples E2 and S2		12			12	11	92	
All results	RV >>>	1	8,3	Negative				
		11	92	Positive				
(740) Antigen Wr^a		2			2	2	100	
Samples E1 and S1		2			2	2	100	
All results	RV >>>	2	100	Negative				
Samples E2 and S2		2			2	2	100	
All results	RV >>>	2	100	Negative				
(737) Direct Coombs (antiglobulin) test		67			67	67	100	
Samples E1 and S1		67			67	67	100	
All results	RV >>>	67	100	Negative				
Samples E2 and S2		67			67	67	100	
All results	RV >>>	67	100	Negative				
(741) Antibody screening (IAT, blood donor)		39			39	37	95	
Samples E1 and S1		39			39	37	95	
All results	RV >>>	2	5,1	Negative				
		37	95	Positive				
Samples E2 and S2		39			39	39	100	
All results	RV >>>	39	100	Positive				
(743) Antibody screening (IAT, recipient)		69			69	68	99	
Samples E1 and S1		69			69	68	99	
All results	RV >>>	1	1,4	Negative				
		68	99	Positive				
Samples E2 and S2		69			69	69	100	
All results	RV >>>	69	100	Positive				
(745) Antibody screening (IAT, pregnant)		47			47	46	98	
Samples E1 and S1		47			47	46	98	
All results	RV >>>	1	2,1	Negative				
		46	98	Positive				
Samples E2 and S2		47			47	47	100	
All results	RV >>>	47	100	Positive				
(747) Antibody screening (enzyme test)		23			23	22	96	
Samples E1 and S1		23			23	23	100	
All results	RV >>>	23	100	Positive				
Samples E2 and S2		23			23	22	96	
All results	RV >>>	1	4,3	Negative				
		22	96	Positive				
(750) Antibody identification		14			14	12	86	
Samples E1 and S1		14			14	12	86	
All results	RV >>>	2	14	anti-Jka				
		12	86	anti-Jka; anti-E				
Samples E2 and S2		14			14	12	86	
All results	RV >>>	2	14	anti-K				
		12	86	anti-K; anti-E				
(752) Antibody titre, Sample 1: 1st antibody		14			0			
Samples E1 and S1		14			0			
All results	±	1	7,1	titre 1				
	±	7	50	titre 2				
	±	3	21	titre 4				
	±	2	14	titre 8				
	±	1	7,1	titre 16				
(753) Antibody titre, Sample 1: 2nd antibody		4			0			
Samples E1 and S1		4			0			
All results	±	1	25	titre 1				
	±	3	75	titre 2				
(756) Antibody titre, Sample 2: 1st antibody		14			0			
Samples E2 and S2		14			0			
All results	±	1	7,1	titre 2				

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
	±	2	14	titre 32			
	±	2	14	titre 64			
	±	8	57	titre 128			
	±	1	7,1	titre 256			
(757) Antibody titre, Sample 2: 2nd antibody Samples E2 and S2		4				0	
All results		4				0	
	±	2	50	titre 1			
	±	2	50	titre 2			
Set 3							
(761) Crossmatch (segment K1)		59				59	59 100
Sample S1		59				59	59 100
All results		>	4	6,8	Negative test		
	RV	>>>	55	93	Positive test		
Sample S2		59				59	59 100
All results	RV	>>>	59	100	Positive test		
(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode)		59				0	
Sample S1		59				0	
All results	±	54	92	Impossible, risk of haemolysis			
	±	5	8,5	Decision depends on results of other tests not performed in our laboratory			
Sample S2		59				0	
All results	±	58	98	Impossible, risk of haemolysis			
	±	1	1,7	Decision depends on results of other tests not performed in our laboratory			
(764) Crossmatch (segment K2)		59				59	57 97
Sample S1		59				59	59 100
All results		>	1	1,7	Negative test		
	RV	>>>	58	98	Positive test		
Sample S2		59				59	57 97
All results	RV	>>>	57	97	Negative test		
		2	3,4	Positive test			
(765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode)		59				0	
Sample S1		59				0	
All results	±	58	98	Impossible, risk of haemolysis			
	±	1	1,7	Decision depends on results of other tests not performed in our laboratory			
Sample S2		59				0	
All results	±	21	36	Impossible, risk of haemolysis			
	±	25	42	Decision depends on results of other tests not performed in our laboratory			
	±	7	12	Only if more suitable products are not available			
	±	6	10	Possible			