

EQA round: IH3/24 - Blood Group Serology

Deadline: 27.9.2024

Setup: Slovakia

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		64			64	64	100
Samples E1 and S1		64			64	64	100
All results	RV >>>	64	100	Blood group: B			
Samples E2 and S2		64			64	64	100
All results	RV >>>	64	100	Blood group: A			
(703) A subgroup		12			12	12	100
Samples E1 and S1		12			12	12	100
All results	RV >>>	12	100	Not specified			
Samples E2 and S2		12			12	12	100
All results	RV >>>	12	100	A subgroup A1			
(705) Rh D antigen (blood-donor)		44			44	43	98
Samples E1 and S1		44			44	43	98
All results		1	2,3	Not specified			
	RV >>>	43	98	Negative (RhD-)			
Samples E2 and S2		44			44	44	100
All results	RV >>>	44	100	Positive (RhD+)			
(709) Rh D antigen (recipient/ pregnant/ newborn)		58			58	58	100
Samples E1 and S1		58			58	58	100
All results	RV >>>	58	100	Negative (RhD-)			
Samples E2 and S2		58			58	58	100
All results	RV >>>	58	100	Positive (RhD+)			
(715) Antigen C		34			34	34	100
Samples E1 and S1		34			34	34	100
All results	RV >>>	34	100	Negative			
Samples E2 and S2		34			34	34	100
All results	RV >>>	34	100	Positive			
(716) Antigen c		34			34	34	100
Samples E1 and S1		34			34	34	100
All results	RV >>>	34	100	Positive			
Samples E2 and S2		34			34	34	100
All results	RV >>>	34	100	Negative			
(718) Antigen E		35			35	35	100
Samples E1 and S1		35			35	35	100
All results	RV >>>	35	100	Negative			
Samples E2 and S2		35			35	35	100
All results	RV >>>	35	100	Negative			
(719) Antigen e		34			34	34	100
Samples E1 and S1		34			34	34	100
All results	RV >>>	34	100	Positive			
Samples E2 and S2		34			34	34	100
All results	RV >>>	34	100	Positive			
(717) Antigen C^w		26			26	26	100
Samples E1 and S1		26			26	26	100
All results	RV >>>	26	100	Negative			
Samples E2 and S2		26			26	26	100
All results	RV >>>	26	100	Negative			
(720) Antigen K		37			37	37	100
Samples E1 and S1		37			37	37	100
All results	RV >>>	37	100	Negative			
Samples E2 and S2		37			37	37	100
All results	RV >>>	37	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			
(738) Antigen Kp^a		9			9	9	100
Samples E1 and S1		9			9	9	100
All results	RV >>>	9	100	Negative			
Samples E2 and S2		9			9	9	100
All results	RV >>>	9	100	Negative			

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(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		16			16	16	100	
Samples E1 and S1		16			16	16	100	
All results	RV >>>	16	100	Positive				
Samples E2 and S2		16			16	16	100	
All results	RV >>>	16	100	Positive				
(730) Antigen Jk^b		16			16	16	100	
Samples E1 and S1		16			16	16	100	
All results	RV >>>	16	100	Negative				
Samples E2 and S2		16			16	16	100	
All results	RV >>>	16	100	Negative				
(727) Antigen Fy^a		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	Positive				
(728) Antigen Fy^b		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	Positive				
(722) Antigen M		17			17	17	100	
Samples E1 and S1		17			17	17	100	
All results	RV >>>	17	100	Negative				
Samples E2 and S2		17			17	17	100	
All results	RV >>>	17	100	Negative				
(723) Antigen N		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	Positive				
(724) Antigen S		16			16	16	100	
Samples E1 and S1		16			16	16	100	
All results	RV >>>	16	100	Negative				
Samples E2 and S2		16			16	16	100	
All results	RV >>>	16	100	Negative				
(725) Antigen s		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				
(733) Antigen Le^a		14			14	14	100	
Samples E1 and S1		14			14	14	100	
All results	RV >>>	14	100	Negative				
Samples E2 and S2		14			14	14	100	
All results	RV >>>	14	100	Negative				
(734) Antigen Le^b		14			14	14	100	
Samples E1 and S1		14			14	14	100	
All results	RV >>>	14	100	Negative				
Samples E2 and S2		14			14	14	100	
All results	RV >>>	14	100	Negative				
(731) Antigen Lu^a		14			14	14	100	
Samples E1 and S1		14			14	14	100	
All results	RV >>>	14	100	Negative				
Samples E2 and S2		14			14	14	100	
All results	RV >>>	14	100	Negative				
(732) Antigen Lu^b		14			14	14	100	
Samples E1 and S1		14			14	14	100	
All results	RV >>>	14	100	Positive				
Samples E2 and S2		14			14	14	100	
All results	RV >>>	14	100	Positive				
(726) Antigen P1		11			11	10	91	
Samples E1 and S1		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} [%]	
Samples E2 and S2		11				11	10	91
All results		1	9,1	Negative				
	RV >>>	10	91	Positive				
(740) Antigen Wr^a		3				3	2	67
Samples E1 and S1		3				3	2	67
All results	RV >>>	2	67	Negative				
		1	33	Positive				
Samples E2 and S2		3				3	2	67
All results	RV >>>	2	67	Negative				
		1	33	Positive				
(737) Direct Coombs (antiglobulin) test		62				62	62	100
Samples E1 and S1		62				62	62	100
All results	RV >>>	62	100	Negative				
Samples E2 and S2		62				62	62	100
All results	RV >>>	62	100	Negative				
(741) Antibody screening (IAT, blood donor)		35				35	35	100
Samples E1 and S1		35				35	35	100
All results	RV >>>	35	100	Positive				
Samples E2 and S2		35				35	35	100
All results	RV >>>	35	100	Positive				
(743) Antibody screening (IAT, recipient)		63				63	63	100
Samples E1 and S1		63				63	63	100
All results	RV >>>	63	100	Positive				
Samples E2 and S2		63				63	63	100
All results	RV >>>	63	100	Positive				
(745) Antibody screening (IAT, pregnant)		41				41	41	100
Samples E1 and S1		41				41	41	100
All results	RV >>>	41	100	Positive				
Samples E2 and S2		41				41	41	100
All results	RV >>>	41	100	Positive				
(747) Antibody screening (enzyme test)		22				22	22	100
Samples E1 and S1		22				22	22	100
All results	RV >>>	22	100	Positive				
Samples E2 and S2		22				22	22	100
All results	RV >>>	22	100	Positive				
(750) Antibody identification		13				13	11	85
Samples E1 and S1		13				13	13	100
All results	RV >>>	13	100	anti-D				
Samples E2 and S2		13				13	11	85
All results	RV >>>	11	85	anti-E; anti-Jkb				
		1	7,7	anti-E; anti-Jkb; anti-M				
		1	7,7	anti-Jkb				
(752) Antibody titre, Sample 1: 1st antibody		13				0		
Samples E1 and S1		13				0		
All results		± 2	15	titre 8				
		± 7	54	titre 16				
		± 3	23	titre 32				
		± 1	7,7	titre 64				
(756) Antibody titre, Sample 2: 1st antibody		12				0		
Samples E2 and S2		12				0		
All results		± 1	8,3	titre 32				
		± 2	17	titre 64				
		± 7	58	titre 128				
		± 1	8,3	titre 256				
		± 1	8,3	titre 512				
(757) Antibody titre, Sample 2: 2nd antibody		3				0		
Samples E2 and S2		3				0		
All results		± 1	33	titre 0 (not measurable)				
		± 1	33	titre 1				
		± 1	33	titre 256				
Set 3								
(761) Crossmatch (segment K1)		54				54	54	100
Sample S1		54				54	54	100
All results	RV >>>	54	100	Negative test				
Sample S2		54				54	54	100
All results	RV >>>	54	100	Negative test				

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode)					0		
Sample S1		54			0		
All results	±	1	1,9	Impossible, risk of haemolysis			
	±	31	57	Decision depends on results of other tests not performed in our laboratory			
	±	9	17	Only if more suitable products are not available			
	±	13	24	Possible			
Sample S2		54			0		
All results	±	10	19	Impossible, risk of haemolysis			
	±	30	56	Decision depends on results of other tests not performed in our laboratory			
	±	6	11	Only if more suitable products are not available			
	±	8	15	Possible			
(764) Crossmatch (segment K2)					54	54	100
Sample S1		54			54	54	100
All results	RV	>>>	54	100	Positive test		
Sample S2		54			54	54	100
All results	RV	>>>	54	100	Positive test		
(765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode)					0		
Sample S1		54			0		
All results	±	53	98	Impossible, risk of haemolysis			
	±	1	1,9	Decision depends on results of other tests not performed in our laboratory			
Sample S2		54			0		
All results	±	52	96	Impossible, risk of haemolysis			
	±	2	3,7	Decision depends on results of other tests not performed in our laboratory			