

EQA round: IH3/23 - Blood Group Serology

Deadline: 29.9.2023

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) ABO blood group		63			63	63	100
Samples E1 and S1		63			63	63	100
All results	RV >>>	63	100	Blood group: 0			
Samples E2 and S2		63			63	63	100
All results	RV >>>	63	100	Blood group: B			
(705) Rh D antigen (blood-donor)		41			41	40	98
Samples E1 and S1		41			41	41	100
All results	RV >>>	41	100	Positive (RhD+)			
Samples E2 and S2		41			41	40	98
All results	RV >>>	1	2,4	Not specified			
		40	98	Negative (RhD-)			
(709) Rh D antigen (recipient/ pregnant/ newborn)		59			59	59	100
Samples E1 and S1		59			59	59	100
All results	RV >>>	59	100	Positive (RhD+)			
Samples E2 and S2		59			59	59	100
All results	RV >>>	59	100	Negative (RhD-)			
(715) Antigen C		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	Negative			
(716) Antigen c		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	Positive			
(718) Antigen E		36			36	36	100
Samples E1 and S1		36			36	36	100
All results	RV >>>	36	100	Negative			
Samples E2 and S2		36			36	36	100
All results	RV >>>	36	100	Positive			
(719) Antigen e		35			35	34	97
Samples E1 and S1		35			35	35	100
All results	RV >>>	35	100	Positive			
Samples E2 and S2		35			35	34	97
All results	RV >>>	1	2,9	Negative			
		34	97	Positive			
(717) Antigen C^w		27			27	27	100
Samples E1 and S1		27			27	27	100
All results	RV >>>	27	100	Positive			
Samples E2 and S2		27			27	27	100
All results	RV >>>	27	100	Negative			
(720) Antigen K		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			
(721) Antigen k		10			10	10	100
Samples E1 and S1		10			10	10	100
All results	RV >>>	10	100	Positive			
Samples E2 and S2		10			10	10	100
All results	RV >>>	10	100	Positive			
(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		4			4	4	100
Samples E1 and S1		4			4	4	100
All results	RV >>>	4	100	Positive			
Samples E2 and S2		4			4	4	100
All results	RV >>>	4	100	Positive			

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(729) Antigen Jk^a		17			17	16	94
Samples E1 and S1		17			17	16	94
All results		1	5,9	Negative			
	RV >>>	16	94	Positive			
Samples E2 and S2		17			17	17	100
All results	RV >>>	17	100	Positive			
(730) Antigen Jk^b		17			17	16	94
Samples E1 and S1		17			17	16	94
All results		1	5,9	Negative			
	RV >>>	16	94	Positive			
Samples E2 and S2		17			17	17	100
All results	RV >>>	17	100	Negative			
(727) Antigen Fy^a		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	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		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			
(723) Antigen N		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	Positive			
(724) Antigen S		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	Negative			
(725) Antigen s		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			
(733) Antigen Le^a		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			
(734) Antigen Le^b		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			
(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		10			10	10	100
Samples E1 and S1		10			10	10	100
All results	RV >>>	10	100	Positive			
Samples E2 and S2		10			10	10	100
All results	RV >>>	10	100	Positive			

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(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		61				61	61	100
Samples E1 and S1		61				61	61	100
All results	RV >>>	61	100	Negative				
Samples E2 and S2		61				61	61	100
All results	RV >>>	61	100	Negative				
(741) Antibody screening (IAT, blood donor)		35				35	34	97
Samples E1 and S1		35				35	35	100
All results	RV >>>	35	100	Positive				
Samples E2 and S2		35				35	34	97
All results	RV >>>	1	2,9	Negative				
	RV >>>	34	97	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)		43				43	43	100
Samples E1 and S1		43				43	43	100
All results	RV >>>	43	100	Positive				
Samples E2 and S2		43				43	43	100
All results	RV >>>	43	100	Positive				
(747) Antibody screening (enzyme test)		22				22	22	100
Samples E1 and S1		22				22	22	100
All results	RV >>>	21	95	Negative				
	RV >>>	1	4,5	Positive				
Samples E2 and S2		22				22	22	100
All results	RV >>>	20	91	Negative				
	RV >>>	2	9,1	Positive				
(750) Antibody identification		13				13	13	100
Samples E1 and S1		13				13	13	100
All results	RV >>>	10	77	anti-Fya				
	RV >>>	3	23	anti-Fya; anti-Lua				
Samples E2 and S2		13				13	13	100
All results	RV >>>	13	100	anti-S				
(752) Antibody titre, Sample 1: 1st antibody		13				0		
Samples E1 and S1		13				0		
All results	±	4	31	titre 8				
	±	5	38	titre 16				
	±	4	31	titre 32				
(753) Antibody titre, Sample 1: 2nd antibody		3				0		
Samples E1 and S1		3				0		
All results	±	1	33	titre 0 (not measurable)				
	±	2	67	titre 1				
(756) Antibody titre, Sample 2: 1st antibody		13				0		
Samples E2 and S2		13				0		
All results	±	4	31	titre 2				
	±	5	38	titre 4				
	±	4	31	titre 8				
Set 3								
(760) Crossmatch		54				54	54	100
Sample S1		54				54	54	100
All results	RV >>>	54	100	Crossmatch successful				
Sample S2		54				54	54	100
All results	RV >>>	54	100	Crossmatch successful				
(761) Crossmatch (segment K1)		54				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				

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(762) Serve transfusion product? (segment K1)		54		0			
(transfusion in non-emergency mode)		54		0			
Sample S1		54		0			
All results	±	54	100	Impossible, risk of haemolysis			
Sample S2		54		0			
All results	±	54	100	Impossible, risk of haemolysis			
(764) Crossmatch (segment K2)		54		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	Negative test			
(765) Serve transfusion product? (segment K2)		54		0			
(transfusion in non-emergency mode)		54		0			
Sample S1		54		0			
All results	±	54	100	Impossible, risk of haemolysis			
Sample S2		54		0			
All results	±	3	5,6	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			
	±	11	20	Possible			