

EQA round: IH4/23 - Blood Group Serology

Deadline: 17.11.2023

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		32			32	32	100
Samples E1 and S1		32			32	32	100
All results	RV >>>	32	100	Blood group: A			
Samples E2 and S2		32			32	32	100
All results	RV >>>	32	100	Blood group: 0			
(703) A subgroup		9			9	9	100
Samples E1 and S1		9			9	9	100
All results	RV >>>	9	100	A subgroup A1			
Samples E2 and S2		9			9	9	100
All results	RV >>>	9	100	Not specified			
(705) Rh D antigen (blood-donor)		22			22	22	100
Samples E1 and S1		22			22	22	100
All results	RV >>>	22	100	Positive (RhD+)			
Samples E2 and S2		22			22	22	100
All results	RV >>>	22	100	Positive (RhD+)			
(709) Rh D antigen (recipient/ pregnant/ newborn)		31			31	31	100
Samples E1 and S1		31			31	31	100
All results	RV >>>	31	100	Positive (RhD+)			
Samples E2 and S2		31			31	31	100
All results	RV >>>	31	100	Positive (RhD+)			
(715) Antigen C		23			23	23	100
Samples E1 and S1		23			23	23	100
All results	RV >>>	23	100	Positive			
Samples E2 and S2		23			23	23	100
All results	RV >>>	23	100	Positive			
(716) Antigen c		23			23	23	100
Samples E1 and S1		23			23	23	100
All results	RV >>>	23	100	Negative			
Samples E2 and S2		23			23	23	100
All results	RV >>>	23	100	Negative			
(718) Antigen E		24			24	24	100
Samples E1 and S1		24			24	24	100
All results	RV >>>	24	100	Negative			
Samples E2 and S2		24			24	24	100
All results	RV >>>	24	100	Negative			
(719) Antigen e		23			23	23	100
Samples E1 and S1		23			23	23	100
All results	RV >>>	23	100	Positive			
Samples E2 and S2		23			23	23	100
All results	RV >>>	23	100	Positive			
(717) Antigen C^w		15			15	14	93
Samples E1 and S1		15			15	15	100
All results	RV >>>	15	100	Negative			
Samples E2 and S2		15			15	14	93
All results	RV >>>	1	6,7	Not specified			
		14	93	Negative			
(720) Antigen K		24			24	24	100
Samples E1 and S1		24			24	24	100
All results	RV >>>	24	100	Negative			
Samples E2 and S2		24			24	24	100
All results	RV >>>	24	100	Negative			
(721) Antigen k		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			
(738) Antigen Kp^a		3			3	3	100
Samples E1 and S1		3			3	3	100
All results	RV >>>	3	100	Negative			
Samples E2 and S2		3			3	3	100
All results	RV >>>	3	100	Negative			

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(739) Antigen Kp^b		2			2	2	100
Samples E1 and S1		2			2	2	100
All results	RV >>>	2	100	Positive			
Samples E2 and S2		2			2	2	100
All results	RV >>>	2	100	Positive			
(729) Antigen Jk^a		7			7	7	100
Samples E1 and S1		7			7	7	100
All results	RV >>>	7	100	Negative			
Samples E2 and S2		7			7	7	100
All results	RV >>>	7	100	Positive			
(730) Antigen Jk^b		7			7	6	86
Samples E1 and S1		7			7	6	86
All results		1	14	Negative			
	RV >>>	6	86	Positive			
Samples E2 and S2		7			7	6	86
All results		1	14	Negative			
	RV >>>	6	86	Positive			
(727) Antigen Fy^a		7			7	7	100
Samples E1 and S1		7			7	7	100
All results	RV >>>	7	100	Positive			
Samples E2 and S2		7			7	7	100
All results	RV >>>	7	100	Negative			
(728) Antigen Fy^b		7			7	7	100
Samples E1 and S1		7			7	7	100
All results	RV >>>	7	100	Negative			
Samples E2 and S2		7			7	7	100
All results	RV >>>	7	100	Positive			
(722) Antigen M		8			8	8	100
Samples E1 and S1		8			8	8	100
All results	RV >>>	8	100	Positive			
Samples E2 and S2		8			8	8	100
All results	RV >>>	8	100	Positive			
(723) Antigen N		6			6	6	100
Samples E1 and S1		6			6	6	100
All results	RV >>>	6	100	Negative			
Samples E2 and S2		6			6	6	100
All results	RV >>>	6	100	Positive			
(724) Antigen S		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			
(725) Antigen s		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			
(733) Antigen Le^a		6			6	6	100
Samples E1 and S1		6			6	6	100
All results	RV >>>	6	100	Negative			
Samples E2 and S2		6			6	6	100
All results	RV >>>	6	100	Positive			
(734) Antigen Le^b		6			6	5	83
Samples E1 and S1		6			6	5	83
All results		1	17	Negative			
	RV >>>	5	83	Positive			
Samples E2 and S2		6			6	6	100
All results	RV >>>	6	100	Negative			
(731) Antigen Lu^a		4			4	4	100
Samples E1 and S1		4			4	4	100
All results	RV >>>	4	100	Negative			
Samples E2 and S2		4			4	4	100
All results	RV >>>	4	100	Negative			
(732) Antigen Lu^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} [%]	
(726) Antigen P1		5			5	5	100	
Samples E1 and S1		5			5	5	100	
All results	RV >>>	5	100	Negative				
Samples E2 and S2		5			5	5	100	
All results	RV >>>	5	100	Positive				
(740) Antigen Wr^a		1			1	1	100	
Samples E1 and S1		1			1	1	100	
All results	RV >>>	1	100	Negative				
Samples E2 and S2		1			1	1	100	
All results	RV >>>	1	100	Negative				
(737) Direct Coombs (antiglobulin) test		31			31	31	100	
Samples E1 and S1		31			31	31	100	
All results	RV >>>	31	100	Negative				
Samples E2 and S2		31			31	31	100	
All results	RV >>>	31	100	Negative				
(741) Antibody screening (IAT, blood donor)		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				
(743) Antibody screening (IAT, recipient)		32			32	32	100	
Samples E1 and S1		32			32	32	100	
All results	RV >>>	32	100	Positive				
Samples E2 and S2		32			32	32	100	
All results	RV >>>	32	100	Positive				
(745) Antibody screening (IAT, pregnant)		25			25	25	100	
Samples E1 and S1		25			25	25	100	
All results	RV >>>	25	100	Positive				
Samples E2 and S2		25			25	25	100	
All results	RV >>>	25	100	Positive				
(747) Antibody screening (enzyme test)		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				
(750) Antibody identification		7			7	5	71	
Samples E1 and S1		7			7	6	86	
All results	RV >>>	6	86	anti-E; anti-K; anti-S 1 14 anti-E; anti-S; anti-Fyb				
Samples E2 and S2		7			7	6	86	
All results	RV >>>	6	86	anti-c 1 14 anti-c; anti-E; anti-Lua				
(752) Antibody titre, Sample 1: 1st antibody		5			0			
Samples E1 and S1		5			0			
All results	±	1	20	titre 4				
	±	2	40	titre 16				
	±	2	40	titre 32				
(753) Antibody titre, Sample 1: 2nd antibody		5			0			
Samples E1 and S1		5			0			
All results	±	2	40	titre 16				
	±	2	40	titre 32				
	±	1	20	titre 64				
(754) Antibody titre, Sample 1: 3rd antibody		5			0			
Samples E1 and S1		5			0			
All results	±	1	20	titre 4				
	±	2	40	titre 8				
	±	2	40	titre 16				
(756) Antibody titre, Sample 2: 1st antibody		5			0			
Samples E2 and S2		5			0			
All results	±	1	20	titre 4				
	±	3	60	titre 8				
	±	1	20	titre 64				
Set 3								
(760) Crossmatch		27			27	26	96	
Sample S1		27			27	27	100	
All results	RV >>>	27	100	Crossmatch successful				
Sample S2		27			27	26	96	
All results		1	3,7	Crossmatch not successful				

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
	RV	>>>	26	96	Crossmatch successful		
(761) Crossmatch (segment K1)			27			27	26
Sample S1			27			27	27
All results	RV	>>>	27	100	Positive test		
Sample S2			27			27	26
All results			1	3,7	Not specified		96
	RV	>>>	26	96	Positive test		
(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode)			27			0	
Sample S1			27			0	
All results		±	27	100	Impossible, risk of haemolysis		
Sample S2			27			0	
All results		±	27	100	Impossible, risk of haemolysis		
(764) Crossmatch (segment K2)			27			27	27
Sample S1			27			27	27
All results	RV	>>>	27	100	Positive test		
Sample S2			27			27	27
All results	RV	>>>	27	100	Negative test		
(765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode)			27			0	
Sample S1			27			0	
All results		±	26	96	Impossible, risk of haemolysis		
		±	1	3,7	Decision depends on results of other tests not performed in our laboratory		
Sample S2			27			0	
All results		±	18	67	Decision depends on results of other tests not performed in our laboratory		
		±	1	3,7	Only if more suitable products are not available		
		±	8	30	Possible		