

EQA round: IH2/23 - Blood Group Serology

Deadline: 2.6.2023

Setup: Slovakia

AV = assigned value

RV = reference value

>>> ... expected result

> ... acceptable result

± ... result not assessed

N_{tot} = total number of the resultsN_{rel} = relative number of the resultsN_{eva} = number of the results assessedN_{suc} = number of successful resultsS_{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		26			26	26	100
Samples E1 and S1		26			26	26	100
All results	RV >>>	26	100	Blood group: A			
Samples E2 and S2		26			26	26	100
All results	RV >>>	26	100	Blood group: 0			
(703) A subgroup		5			5	5	100
Samples E1 and S1		5			5	5	100
All results	RV >>>	5	100	A subgroup A2			
Samples E2 and S2		5			5	5	100
All results	RV >>>	5	100	Not specified			
(705) Rh D antigen (blood-donor)		18			18	18	100
Samples E1 and S1		18			18	18	100
All results	RV >>>	18	100	Positive (RhD+)			
Samples E2 and S2		18			18	18	100
All results	RV >>>	18	100	Negative (RhD-)			
(709) Rh D antigen (recipient/ pregnant/ newborn)		25			25	25	100
Samples E1 and S1		25			25	25	100
All results	RV >>>	25	100	Positive (RhD+)			
Samples E2 and S2		25			25	25	100
All results	RV >>>	25	100	Negative (RhD-)			
(715) Antigen C		19			19	19	100
Samples E1 and S1		19			19	19	100
All results	RV >>>	19	100	Negative			
Samples E2 and S2		19			19	19	100
All results	RV >>>	19	100	Negative			
(716) Antigen c		19			19	19	100
Samples E1 and S1		19			19	19	100
All results	RV >>>	19	100	Positive			
Samples E2 and S2		19			19	19	100
All results	RV >>>	19	100	Positive			
(718) Antigen E		20			20	20	100
Samples E1 and S1		20			20	20	100
All results	RV >>>	20	100	Positive			
Samples E2 and S2		20			20	20	100
All results	RV >>>	20	100	Negative			
(719) Antigen e		19			19	19	100
Samples E1 and S1		19			19	19	100
All results	RV >>>	19	100	Positive			
Samples E2 and S2		19			19	19	100
All results	RV >>>	19	100	Positive			
(717) Antigen C^w		11			11	11	100
Samples E1 and S1		11			11	11	100
All results	RV >>>	11	100	Negative			
Samples E2 and S2		11			11	11	100
All results	RV >>>	11	100	Negative			
(720) Antigen K		20			20	20	100
Samples E1 and S1		20			20	20	100
All results	RV >>>	20	100	Negative			
Samples E2 and S2		20			20	20	100
All results	RV >>>	20	100	Negative			
(721) Antigen k		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	5	83
All results		1	17	Negative			
	RV >>>	5	83	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			

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(739) Antigen Kp^b		2			2	1	50
Samples E1 and S1		2			2	1	50
All results		1	50	Negative			
	RV >>>	1	50	Positive			
Samples E2 and S2		2			2	1	50
All results		1	50	Negative			
	RV >>>	1	50	Positive			
(729) Antigen Jk^a		5			5	5	100
Samples E1 and S1		5			5	5	100
All results	RV >>>	5	100	Positive			
Samples E2 and S2		5			5	5	100
All results	RV >>>	5	100	Negative			
(730) Antigen Jk^b		5			5	3	60
Samples E1 and S1		5			5	4	80
All results	RV >>>	4	80	Negative			
		1	20	Positive			
Samples E2 and S2		5			5	4	80
All results	RV >>>	1	20	Negative			
		4	80	Positive			
(727) Antigen Fy^a		5			5	5	100
Samples E1 and S1		5			5	5	100
All results	RV >>>	5	100	Positive			
Samples E2 and S2		5			5	5	100
All results	RV >>>	5	100	Positive			
(728) Antigen Fy^b		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	Negative			
(722) Antigen M		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	Negative			
(723) Antigen N		5			5	5	100
Samples E1 and S1		5			5	5	100
All results	RV >>>	5	100	Positive			
Samples E2 and S2		5			5	5	100
All results	RV >>>	5	100	Positive			
(724) Antigen S		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	Negative			
(725) Antigen s		5			5	5	100
Samples E1 and S1		5			5	5	100
All results	RV >>>	5	100	Positive			
Samples E2 and S2		5			5	5	100
All results	RV >>>	5	100	Positive			
(733) Antigen Le^a		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	Negative			
(734) Antigen Le^b		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	Positive			
(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		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				
(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		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				
(741) Antibody screening (IAT, blood donor)		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				
(743) Antibody screening (IAT, recipient)		26			26	26	100	
Samples E1 and S1		26			26	26	100	
All results	RV >>>	26	100	Positive				
Samples E2 and S2		26			26	26	100	
All results	RV >>>	26	100	Positive				
(745) Antibody screening (IAT, pregnant)		20			20	20	100	
Samples E1 and S1		20			20	20	100	
All results	RV >>>	20	100	Positive				
Samples E2 and S2		20			20	20	100	
All results	RV >>>	20	100	Positive				
(747) Antibody screening (enzyme test)		8			8	8	100	
Samples E1 and S1		8			8	8	100	
All results	RV >>>	3	38	Negative				
	RV >>>	5	63	Positive				
Samples E2 and S2		8			8	8	100	
All results	RV >>>	8	100	Positive				
(750) Antibody identification		6			6	5	83	
Samples E1 and S1		6			6	6	100	
All results	RV >>>	6	100	anti-K				
Samples E2 and S2		6			6	5	83	
All results	RV >>>	5	83	anti-D; anti-M				
		1	17	anti-M; anti-C; anti-E				
(752) Antibody titre, Sample 1: 1st antibody		4			0			
Samples E1 and S1		4			0			
All results	±	2	50	titre 16				
	±	1	25	titre 32				
	±	1	25	titre 64				
(756) Antibody titre, Sample 2: 1st antibody		3			0			
Samples E2 and S2		3			0			
All results	±	1	33	titre 16				
	±	1	33	titre 64				
	±	1	33	titre 128				
(757) Antibody titre, Sample 2: 2nd antibody		4			0			
Samples E2 and S2		4			0			
All results	±	1	25	titre 128				
	±	2	50	titre 512				
	±	1	25	titre 1000				
Set 3								
(760) Crossmatch		22			22	22	100	
Sample S1		22			22	22	100	
All results	RV >>>	22	100	Crossmatch successful				
Sample S2		22			22	22	100	
All results	RV >>>	22	100	Crossmatch successful				
(761) Crossmatch (segment K1)		22			22	22	100	
Sample S1		22			22	22	100	
All results	RV >>>	22	100	Positive test				
Sample S2		22			22	22	100	
All results	RV >>>	22	100	Positive test				

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(762) Serve transfusion product? (segment K1)		22			0		
(transfusion in non-emergency mode)							
Sample S1		22			0		
All results	±	22	100	Impossible, risk of haemolysis			
Sample S2		22			0		
All results	±	22	100	Impossible, risk of haemolysis			
(764) Crossmatch (segment K2)		22			22	22	100
Sample S1		22			22	22	100
All results	RV	>>>	22	100	Negative test		
Sample S2		22			22	22	100
All results	RV	>>>	22	100	Positive test		
(765) Serve transfusion product? (segment K2)		22			0		
(transfusion in non-emergency mode)							
Sample S1		22			0		
All results	±	13	59	Decision depends on results of other tests not performed in our laboratory			
	±	5	23	Only if more suitable products are not available			
	±	4	18	Possible			
Sample S2		22			0		
All results	±	21	95	Impossible, risk of haemolysis			
	±	1	4,5	Decision depends on results of other tests not performed in our laboratory			