Summary statistics - qualitative results

EQA round: IH1/23 - Blood Group Serology Deadline: 10.3.2023

Setup: Slovakia

AV = assigned value	N_{tot} = total number of the results
RV = reference value	N_{rel} = relative number of the results
>>> ... expected result	
> ... acceptable result	
± ... result not assessed	

N_{eva} = number of the results assessed	
N_{suc} = number of successful results	
S_{rel} = relative success	

Test / Sample / Group	AV		N_{tot}	N_{rel} [%]	Result	N_{eva}	N_{suc}	S_{rel} [%]
Set 1 and 2								
(700) **AB0 blood group**			73			73	73	100
Samples E1 and S1			73			73	73	100
All results	RV	>>>	73	100	Blood group: A			
Samples E2 and S2			73			73	73	100
All results	RV	>>>	73	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)**			46			46	44	96
Samples E1 and S1			46			46	44	96
All results			2	4,3	Not specified			
	RV	>>>	44	96	Negative (RhD-)			
Samples E2 and S2			46			46	46	100
All results	RV	>>>	46	100	Positive (RhD+)			
(709) **Rh D antigen (recipient/ pregnant/ newborn)**			71			71	71	100
Samples E1 and S1			71			71	71	100
All results	RV	>>>	71	100	Negative (RhD-)			
Samples E2 and S2			71			71	71	100
All results	RV	>>>	71	100	Positive (RhD+)			
(715) **Antigen C**			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	Positive			
(716) **Antigen c**			39			39	38	97
Samples E1 and S1			39			39	38	97
All results			1	2,6	Negative			
	RV	>>>	38	97	Positive			
Samples E2 and S2			39			39	39	100
All results	RV	>>>	39	100	Negative			
(718) **Antigen E**			40			40	40	100
Samples E1 and S1			40			40	40	100
All results	RV	>>>	40	100	Negative			
Samples E2 and S2			40			40	40	100
All results	RV	>>>	40	100	Negative			
(719) **Antigen e**			39			39	39	100
Samples E1 and S1			39			39	39	100
All results	RV	>>>	39	100	Positive			
Samples E2 and S2			39			39	39	100
All results	RV	>>>	39	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**			12			12	12	100
Samples E1 and S1			12			12	12	100
All results	RV	>>>	12	100	Positive			
Samples E2 and S2			12			12	12	100
All results	RV	>>>	12	100	Positive			
(738) **Antigen Kp^a**			10			10	9	90
Samples E1 and S1			10			10	10	100
All results	RV	>>>	10	100	Negative			
Samples E2 and S2			10			10	9	90
All results			1	10	Not specified			

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Test / Sample / Group	AV		N_{tot}	N_{rel} [%]	Result	N_{eva}	N_{suc}	S_{rel} [%]
	RV	>>>	9	90	Negative			
(739) Antigen Kp^b			5			5	4	80
Samples E1 and S1			5			5	5	100
All results	RV	>>>	5	100	Positive			
Samples E2 and S2			5			5	4	80
All results			1	20	Not specified			
	RV	>>>	4	80	Positive			
(729) Antigen Jk^a			18			18	17	94
Samples E1 and S1			18			18	17	94
All results			1	5,6	Negative			
	RV	>>>	17	94	Positive			
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	Negative			
Samples E2 and S2			18			18	18	100
All results	RV	>>>	18	100	Negative			
(727) Antigen Fy^a			19			19	18	95
Samples E1 and S1			19			19	18	95
All results			1	5,3	Not specified			
	RV	>>>	18	95	Positive			
Samples E2 and S2			19			19	19	100
All results	RV	>>>	19	100	Negative			
(728) Antigen Fy^b			19			19	18	95
Samples E1 and S1			19			19	18	95
All results			1	5,3	Not specified			
	RV	>>>	18	95	Positive			
Samples E2 and S2			19			19	19	100
All results	RV	>>>	19	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	17	94
Samples E1 and S1			18			18	17	94
All results			1	5,6	Negative			
	RV	>>>	17	94	Positive			
Samples E2 and S2			18			18	17	94
All results			1	5,6	Negative			
	RV	>>>	17	94	Positive			
(724) Antigen S			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	Negative			
(725) 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			
(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	13	81
Samples E1 and S1			16			16	13	81
All results			3	19	Negative			
	RV	>>>	13	81	Positive			
Samples E2 and S2			16			16	16	100
All results	RV	>>>	16	100	Positive			
(731) Antigen Lu^a			15			15	15	100
Samples E1 and S1			15			15	15	100
All results	RV	>>>	15	100	Negative			
Samples E2 and S2			15			15	15	100
All results	RV	>>>	15	100	Positive			

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Test Sample Group	AV		N_{tot}	N_{rel} [%]	Frequency of the results Result	Success N_{eva}	N_{suc}	S_{rel} [%]
(732) Antigen Lu^b			15			15	14	93
Samples E1 and S1			15			15	14	93
All results			1	6,7	Negative			
	RV	>>>	14	93	Positive			
Samples E2 and S2			15			15	15	100
All results	RV	>>>	15	100	Positive			
(726) Antigen P1			13			13	12	92
Samples E1 and S1			13			13	12	92
All results			1	7,7	Negative			
	RV	>>>	12	92	Positive			
Samples E2 and S2			13			13	13	100
All results	RV	>>>	13	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			71			71	70	99
Samples E1 and S1			71			71	70	99
All results	RV	>>>	70	99	Negative			
			1	1,4	Positive			
Samples E2 and S2			71			71	71	100
All results	RV	>>>	71	100	Negative			
(741) Antibody screening (IAT, blood donor)			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		>	10	26	Negative			
	RV	>>>	28	74	Positive			
(743) Antibody screening (IAT, recipient)			73			73	73	100
Samples E1 and S1			73			73	73	100
All results	RV	>>>	73	100	Positive			
Samples E2 and S2			73			73	73	100
All results		>	14	19	Negative			
	RV	>>>	59	81	Positive			
(745) Antibody screening (IAT, pregnant)			47			47	47	100
Samples E1 and S1			47			47	47	100
All results	RV	>>>	47	100	Positive			
Samples E2 and S2			47			47	47	100
All results		>	6	13	Negative			
	RV	>>>	41	87	Positive			
(747) Antibody screening (enzyme test)			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		>	7	28	Negative			
	RV	>>>	18	72	Positive			
(750) Antibody identification			15			15	13	87
Samples E1 and S1			15			15	15	100
All results		>	6	40	anti-D			
	RV	>>>	9	60	anti-D; anti-Kpa			
Samples E2 and S2			15			15	13	87
All results			2	13	Not specified			
	RV	>>>	13	87	anti-Jkb			
(752) Antibody titre, Sample 1: 1st antibody			15			0		
Samples E1 and S1			15			0		
All results		±	1	6,7	titre 8			
		±	4	27	titre 16			
		±	3	20	titre 32			
		±	5	33	titre 64			
		±	2	13	titre 128			
(753) Antibody titre, Sample 1: 2nd antibody			8			0		
Samples E1 and S1			8			0		
All results		±	7	88	titre 1			
		±	1	13	titre 2			
(756) Antibody titre, Sample 2: 1st antibody			13			0		
Samples E2 and S2			13			0		
All results		±	8	62	titre 1			
		±	4	31	titre 2			

Test Sample Group	AV	N_tot	N_rel [%]	Result	N_eva	N_suc	S_rel [%]
	±	1	7,7	titre 4			

Set 3

Test Sample Group		AV	N_tot	N_rel [%]	Result	N_eva	N_suc	S_rel [%]
(760) Crossmatch			62			62	51	82
Sample S1			62			62	51	82
All results			11	18	Crossmatch not successful			
	RV	>>>	51	82	Crossmatch successful			
Sample S2			62			62	62	100
All results	RV	>>>	62	100	Crossmatch successful			
(761) Crossmatch (segment K1)			62			62	51	82
Sample S1			62			62	51	82
All results			11	18	Negative test			
	RV	>>>	51	82	Positive test			
Sample S2			62			62	62	100
All results	RV	>>>	58	94	Negative test			
	RV	>>>	4	6,5	Positive test			
(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode)			62			0		
Sample S1			62			0		
All results		±	49	79	Impossible, risk of haemolysis			
		±	5	8,1	Decision depends on results of other tests not performed in our laboratory			
		±	5	8,1	Only if more suitable products are not available			
		±	3	4,8	Possible			
Sample S2			62			0		
All results		±	12	19	Impossible, risk of haemolysis			
		±	33	53	Decision depends on results of other tests not performed in our laboratory			
		±	2	3,2	Only if more suitable products are not available			
		±	15	24	Possible			
(764) Crossmatch (segment K2)			62			62	62	100
Sample S1			62			62	62	100
All results	RV	>>>	62	100	Positive test			
Sample S2			62			62	62	100
All results	RV	>>>	62	100	Negative test			
(765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode)			62			0		
Sample S1			62			0		
All results		±	62	100	Impossible, risk of haemolysis			
Sample S2			62			0		
All results		±	1	1,6	Impossible, risk of haemolysis			
		±	33	53	Decision depends on results of other tests not performed in our laboratory			
		±	1	1,6	Only if more suitable products are not available			
		±	27	44	Possible			