Summary statistics - qualitative results

EQA round: IH3/26 - Blood Group Serology

Deadline: 2.10.2026

Setup: all data

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	AV		Frequency of the results N_{tot}	N_{rel} [%]	Result	Success N_{eva}	N_{suc}	S_{rel} [%]
Set 1 and 2								
(700) **AB0 blood group**			168			168	168	100
Samples E1 and S1			168			168	168	100
All results	RV	>>>	168	100	Blood group: 0			
Samples E2 and S2			168			168	168	100
All results	RV	>>>	168	100	Blood group: B			
(705) **RhD antigen (blood-donor)**			88			88	88	100
Samples E1 and S1			88			88	88	100
All results	RV	>>>	88	100	Negative (RhD-)			
Samples E2 and S2			88			88	88	100
All results	RV	>>>	88	100	Negative (RhD-)			
(709) **RhD antigen (recipient/ pregnant/ newborn)**			156			156	155	99
Samples E1 and S1			156			156	156	100
All results	RV	>>>	156	100	Negative (RhD-)			
Samples E2 and S2			156			156	155	99
All results	RV	>>>	155	99	Negative (RhD-)			
			1	0,6	w/v (RhD weak/variant)			
(715) **Antigen C**			94			94	94	100
Samples E1 and S1			94			94	94	100
All results	RV	>>>	94	100	Negative			
Samples E2 and S2			94			94	94	100
All results	RV	>>>	94	100	Negative			
(716) **Antigen c**			94			94	94	100
Samples E1 and S1			94			94	94	100
All results	RV	>>>	94	100	Positive			
Samples E2 and S2			94			94	94	100
All results	RV	>>>	94	100	Positive			
(718) **Antigen E**			95			95	95	100
Samples E1 and S1			95			95	95	100
All results	RV	>>>	95	100	Negative			
Samples E2 and S2			95			95	95	100
All results	RV	>>>	95	100	Negative			
(719) **Antigen e**			94			94	94	100
Samples E1 and S1			94			94	94	100
All results	RV	>>>	94	100	Positive			
Samples E2 and S2			94			94	94	100
All results	RV	>>>	94	100	Positive			
(717) **Antigen C^w**			83			83	83	100
Samples E1 and S1			83			83	83	100
All results	RV	>>>	83	100	Negative			
Samples E2 and S2			83			83	83	100
All results	RV	>>>	83	100	Negative			
(720) **Antigen K**			104			104	104	100
Samples E1 and S1			104			104	104	100
All results	RV	>>>	104	100	Negative			
Samples E2 and S2			104			104	104	100
All results	RV	>>>	104	100	Negative			
(721) **Antigen k**			44			44	43	98
Samples E1 and S1			44			44	43	98
All results			1	2,3	Not specified			
	RV	>>>	43	98	Positive			
Samples E2 and S2			44			44	44	100
All results	RV	>>>	44	100	Positive			
(738) **Antigen Kp^a**			24			24	23	96
Samples E1 and S1			24			24	23	96
All results			1	4,2	Not specified			
	RV	>>>	23	96	Negative			
Samples E2 and S2			24			24	24	100
All results	RV	>>>	24	100	Negative			
(739) **Antigen Kp^b**			17			17	16	94
Samples E1 and S1			17			17	16	94
All results			1	5,9	Not specified			
	RV	>>>	16	94	Positive			

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				Frequency of the results		Success		
Samples E2 and S2			17			17	17	100
All results	RV	>>>	17	100	Positive			
(729) **Antigen Jk[a]**			47			47	46	98
Samples E1 and S1			47			47	47	100
All results	RV	>>>	47	100	Positive			
Samples E2 and S2			47			47	46	98
All results	RV	>>>	46	98	Negative			
			1	2,1	Positive			
(730) **Antigen Jk[b]**			47			47	46	98
Samples E1 and S1			47			47	46	98
All results			1	2,1	Negative			
	RV	>>>	46	98	Positive			
Samples E2 and S2			47			47	46	98
All results			1	2,1	Negative			
	RV	>>>	46	98	Positive			
(727) **Antigen Fy[a]**			48			48	47	98
Samples E1 and S1			48			48	48	100
All results	RV	>>>	48	100	Negative			
Samples E2 and S2			48			48	47	98
All results			1	2,1	Negative			
	RV	>>>	47	98	Positive			
(728) **Antigen Fy[b]**			48			48	48	100
Samples E1 and S1			48			48	48	100
All results	RV	>>>	48	100	Positive			
Samples E2 and S2			48			48	48	100
All results	RV	>>>	48	100	Positive			
(722) **Antigen M**			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	RV	>>>	47	100	Positive			
(723) **Antigen N**			45			45	42	93
Samples E1 and S1			45			45	44	98
All results			1	2,2	Negative			
	RV	>>>	44	98	Positive			
Samples E2 and S2			45			45	43	96
All results	RV	>>>	43	96	Negative			
			2	4,4	Positive			
(724) **Antigen S**			48			48	48	100
Samples E1 and S1			48			48	48	100
All results	RV	>>>	48	100	Negative			
Samples E2 and S2			48			48	48	100
All results	RV	>>>	48	100	Negative			
(725) **Antigen s**			48			48	48	100
Samples E1 and S1			48			48	48	100
All results	RV	>>>	48	100	Positive			
Samples E2 and S2			48			48	48	100
All results	RV	>>>	48	100	Positive			
(733) **Antigen Le[a]**			38			38	38	100
Samples E1 and S1			38			38	38	100
All results	RV	>>>	38	100	Negative			
Samples E2 and S2			38			38	38	100
All results	RV	>>>	38	100	Negative			
(734) **Antigen Le[b]**			38			38	37	97
Samples E1 and S1			38			38	37	97
All results			1	2,6	Negative			
	RV	>>>	37	97	Positive			
Samples E2 and S2			38			38	38	100
All results	RV	>>>	38	100	Negative			
(731) **Antigen Lu[a]**			32			32	30	94
Samples E1 and S1			32			32	30	94
All results	RV	>>>	30	94	Negative			
			2	6,3	Positive			
Samples E2 and S2			32			32	30	94
All results	RV	>>>	30	94	Negative			
			2	6,3	Positive			
(732) **Antigen Lu[b]**			28			28	28	100
Samples E1 and S1			28			28	28	100
All results	RV	>>>	28	100	Positive			

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Test / Sample / Group		AV	N_{tot}	N_{rel} [%]	Result	N_{eva}	N_{suc}	S_{rel} [%]
					Frequency of the results		**Success**	
Samples E2 and S2			28			28	28	100
All results	RV	>>>	28	100	Positive			
(726) **Antigen P1**			31			31	26	84
Samples E1 and S1			31			31	31	100
All results	RV	>>>	31	100	Negative			
Samples E2 and S2			31			31	26	84
All results			1	3,2	Not specified			
			4	13	Negative			
	RV	>>>	26	84	Positive			
(740) **Antigen Wr[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	Negative			
(737) **Direct Antiglobulin Test**			128			128	126	98
Samples E1 and S1			128			128	127	99
All results	RV	>>>	127	99	Negative			
			1	0,8	Positive			
Samples E2 and S2			128			128	127	99
All results	RV	>>>	127	99	Negative			
			1	0,8	Positive			
(741) **Antierythrocyte antibody screening (IAT, blood donor)**			74			74	74	100
Samples E1 and S1			74			74	74	100
All results	RV	>>>	74	100	Positive			
Samples E2 and S2			74			74	74	100
All results	RV	>>>	74	100	Positive			
(743) **Antierythrocyte antibody screening (IAT, recipient)**			143			143	143	100
Samples E1 and S1			143			143	143	100
All results	RV	>>>	143	100	Positive			
Samples E2 and S2			143			143	143	100
All results	RV	>>>	143	100	Positive			
(745) **Antierythrocyte antibody screening (IAT, pregnant)**			122			122	122	100
Samples E1 and S1			122			122	122	100
All results	RV	>>>	122	100	Positive			
Samples E2 and S2			122			122	122	100
All results	RV	>>>	122	100	Positive			
(747) **Antierythrocyte antibody screening (enzyme test)**			93			93	91	98
Samples E1 and S1			93			93	91	98
All results	RV	>>>	91	98	Negative			
			2	2,2	Positive			
Samples E2 and S2			93			93	93	100
All results		>	7	7,5	Negative			
	RV	>>>	86	92	Positive			
(750) **Antierythrocyte antibody identification**			50			50	50	100
Samples E1 and S1			50			50	50	100
All results	RV	>>>	50	100	anti-Fya			
Samples E2 and S2			50			50	50	100
All results		>	6	12	anti-S			
	RV	>>>	44	88	anti-S; anti-C			
(752) **Antibody titre, Sample 1: 1st antibody**			41			0		
Samples E1 and S1			41			0		
All results		±	4	9,8	titre 2			
		±	7	17	titre 4			
		±	26	63	titre 8			
		±	4	9,8	titre 16			
(756) **Antibody titre, Sample 2: 1st antibody**			41			0		
Samples E2 and S2			41			0		
All results		±	9	22	titre 2			
		±	12	29	titre 4			
		±	19	46	titre 8			
		±	1	2,4	titre 16			
(757) **Antibody titre, Sample 2: 2nd antibody**			10			0		
Samples E2 and S2			10			0		
All results		±	4	40	titre 0 (not measurable)			
		±	6	60	titre 1			

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Test / Sample / Group		AV	N_{tot}	N_{rel} [%]	Result	N_{eva}	N_{suc}	S_{rel} [%]
					Frequency of the results		**Success**	
Set 3								
(761) **Compatibility test (segment K1)**			115			115	114	99
Sample S1			115			115	115	100
All results	RV	>>>	115	100	Positive test			
Sample S2			115			115	114	99
All results	RV	>>>	114	99	Negative test			
			1	0,9	Positive test			
(762) **Serve transfusion product? (segment K1) (transfusion in non-emergency mode)**			114			0		
Sample S1			114			0		
All results		±	111	97	Impossible, risk of haemolysis			
		±	3	2,6	Decision depends on results of other tests not performed in our laboratory			
Sample S2			114			0		
All results		±	20	18	Impossible, risk of haemolysis			
		±	46	40	Decision depends on results of other tests not performed in our laboratory			
		±	34	30	Only if more suitable products are not available			
		±	14	12	Possible			
(764) **Compatibility test (segment K2)**			115			115	114	99
Sample S1			115			115	114	99
All results			1	0,9	Negative test			
	RV	>>>	114	99	Positive test			
Sample S2			115			115	115	100
All results	RV	>>>	115	100	Negative test			
(765) **Serve transfusion product? (segment K2) (transfusion in non-emergency mode)**			115			0		
Sample S1			115			0		
All results		±	110	96	Impossible, risk of haemolysis			
		±	5	4,3	Decision depends on results of other tests not performed in our laboratory			
Sample S2			115			0		
All results		±	1	0,9	Impossible, risk of haemolysis			
		±	55	48	Decision depends on results of other tests not performed in our laboratory			
		±	21	18	Only if more suitable products are not available			
		±	38	33	Possible			