

Setup: all data

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) AB0 blood group		165			165	165	100
Samples E1 and S1		165			165	165	100
All results	RV >>>	165	100	Blood group: 0			
Samples E2 and S2		165			165	165	100
All results	RV >>>	165	100	Blood group: B			
(705) Rh D antigen (blood-donor)		98			98	97	99
Samples E1 and S1		98			98	98	100
All results	RV >>>	98	100	Positive (RhD+)			
Samples E2 and S2		98			98	97	99
All results	RV >>>	1	1	Not specified			
		97	99	Negative (RhD-)			
(709) Rh D antigen (recipient/ pregnant/ newborn)		155			155	155	100
Samples E1 and S1		155			155	155	100
All results	RV >>>	155	100	Positive (RhD+)			
Samples E2 and S2		155			155	155	100
All results	RV >>>	155	100	Negative (RhD-)			
(715) Antigen C		86			86	86	100
Samples E1 and S1		86			86	86	100
All results	RV >>>	86	100	Positive			
Samples E2 and S2		86			86	86	100
All results	RV >>>	86	100	Negative			
(716) Antigen c		86			86	86	100
Samples E1 and S1		86			86	86	100
All results	RV >>>	86	100	Negative			
Samples E2 and S2		86			86	86	100
All results	RV >>>	86	100	Positive			
(718) Antigen E		87			87	87	100
Samples E1 and S1		87			87	87	100
All results	RV >>>	87	100	Negative			
Samples E2 and S2		87			87	87	100
All results	RV >>>	87	100	Positive			
(719) Antigen e		86			86	85	99
Samples E1 and S1		86			86	86	100
All results	RV >>>	86	100	Positive			
Samples E2 and S2		86			86	85	99
All results	RV >>>	1	1,2	Negative			
		85	99	Positive			
(717) Antigen C^w		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	Negative			
(720) Antigen K		92			92	92	100
Samples E1 and S1		92			92	92	100
All results	RV >>>	92	100	Negative			
Samples E2 and S2		92			92	92	100
All results	RV >>>	92	100	Negative			
(721) Antigen k		40			40	40	100
Samples E1 and S1		40			40	40	100
All results	RV >>>	40	100	Positive			
Samples E2 and S2		40			40	40	100
All results	RV >>>	40	100	Positive			
(738) Antigen Kp^a		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			
(739) Antigen Kp^b		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			

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Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(729) Antigen Jk ^a		43			43	42	98
Samples E1 and S1		43			43	42	98
All results		1	2,3	Negative			
	RV >>>	42	98	Positive			
Samples E2 and S2		43			43	43	100
All results	RV >>>	43	100	Positive			
(730) Antigen Jk ^b		43			43	41	95
Samples E1 and S1		43			43	41	95
All results		2	4,7	Negative			
	RV >>>	41	95	Positive			
Samples E2 and S2		43			43	43	100
All results	RV >>>	43	100	Negative			
(727) Antigen Fy ^a		43			43	43	100
Samples E1 and S1		43			43	43	100
All results	RV >>>	43	100	Negative			
Samples E2 and S2		43			43	43	100
All results	RV >>>	43	100	Positive			
(728) Antigen Fy ^b		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			
(722) Antigen M		42			42	42	100
Samples E1 and S1		42			42	42	100
All results	RV >>>	42	100	Positive			
Samples E2 and S2		42			42	42	100
All results	RV >>>	42	100	Positive			
(723) Antigen N		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	Positive			
(724) Antigen S		42			42	42	100
Samples E1 and S1		42			42	42	100
All results	RV >>>	42	100	Positive			
Samples E2 and S2		42			42	42	100
All results	RV >>>	42	100	Negative			
(725) Antigen s		42			42	42	100
Samples E1 and S1		42			42	42	100
All results	RV >>>	42	100	Positive			
Samples E2 and S2		42			42	42	100
All results	RV >>>	42	100	Positive			
(733) Antigen Le ^a		35			35	34	97
Samples E1 and S1		35			35	34	97
All results	RV >>>	34	97	Negative			
		1	2,9	Positive			
Samples E2 and S2		35			35	35	100
All results	RV >>>	35	100	Negative			
(734) Antigen Le ^b		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	Positive			
(731) Antigen Lu ^a		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			
(732) Antigen Lu ^b		30			30	30	100
Samples E1 and S1		30			30	30	100
All results	RV >>>	30	100	Positive			
Samples E2 and S2		30			30	30	100
All results	RV >>>	30	100	Positive			
(726) Antigen P1		30			30	30	100
Samples E1 and S1		30			30	30	100
All results	RV >>>	30	100	Positive			
Samples E2 and S2		30			30	30	100
All results	RV >>>	30	100	Positive			

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Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(740) Antigen W^r_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 Coombs (antiglobulin) test		123			123	123	100	
Samples E1 and S1		123			123	123	100	
All results	RV >>>	123	100	Negative				
Samples E2 and S2		123			123	123	100	
All results	RV >>>	123	100	Negative				
(741) Antibody screening (IAT, blood donor)		84			84	83	99	
Samples E1 and S1		84			84	84	100	
All results	RV >>>	84	100	Positive				
Samples E2 and S2		84			84	83	99	
All results	RV >>>	1	1,2	Negative				
		83	99	Positive				
(743) Antibody screening (IAT, recipient)		144			144	144	100	
Samples E1 and S1		144			144	144	100	
All results	RV >>>	144	100	Positive				
Samples E2 and S2		144			144	144	100	
All results	RV >>>	144	100	Positive				
(745) Antibody screening (IAT, pregnant)		119			119	119	100	
Samples E1 and S1		119			119	119	100	
All results	RV >>>	119	100	Positive				
Samples E2 and S2		119			119	119	100	
All results	RV >>>	119	100	Positive				
(747) Antibody screening (enzyme test)		90			90	90	100	
Samples E1 and S1		90			90	90	100	
All results	RV >>>	87	97	Negative				
	RV >>>	3	3,3	Positive				
Samples E2 and S2		90			90	90	100	
All results	RV >>>	85	94	Negative				
	RV >>>	5	5,6	Positive				
(750) Antibody identification		49			49	49	100	
Samples E1 and S1		49			49	49	100	
All results	RV >>>	43	88	anti-Fya				
	RV >>>	6	12	anti-Fya; anti-Lua				
Samples E2 and S2		49			49	49	100	
All results	RV >>>	49	100	anti-S				
(752) Antibody titre, Sample 1: 1st antibody		39			0			
Samples E1 and S1		39			0			
All results	±	9	23	titre 8				
	±	18	46	titre 16				
	±	10	26	titre 32				
	±	2	5,1	titre 64				
(753) Antibody titre, Sample 1: 2nd antibody		4			0			
Samples E1 and S1		4			0			
All results	±	2	50	titre 0 (not measurable)				
	±	2	50	titre 1				
(756) Antibody titre, Sample 2: 1st antibody		38			0			
Samples E2 and S2		38			0			
All results	±	1	2,6	titre 1				
	±	15	39	titre 2				
	±	15	39	titre 4				
	±	7	18	titre 8				
Set 3								
(760) Crossmatch		115			115	115	100	
Sample S1		115			115	115	100	
All results	RV >>>	115	100	Crossmatch successful				
Sample S2		115			115	115	100	
All results	RV >>>	115	100	Crossmatch successful				
(761) Crossmatch (segment K1)		115			115	115	100	
Sample S1		115			115	115	100	
All results	RV >>>	115	100	Positive test				
Sample S2		115			115	115	100	
All results	RV >>>	115	100	Positive test				

EQA round: IH3/23 - Blood Group Serology

Deadline: 29.9.2023

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Test Sample Group	Frequency of the results			Result	Success		
	AV	N _{tot}	N _{rel} [%]		N _{eva}	N _{suc}	S _{rel} [%]
(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode)							0
Sample S1		115					0
All results	±	114	99	Impossible, risk of haemolysis			
	±	1	0,9	Decision depends on results of other tests not performed in our laboratory			
Sample S2		115					0
All results	±	115	100	Impossible, risk of haemolysis			
(764) Crossmatch (segment K2)							115 115 100
Sample S1		115					115 115 100
All results	RV >>>	115	100	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)							0
Sample S1		114					0
All results	±	113	99	Impossible, risk of haemolysis			
	±	1	0,9	Decision depends on results of other tests not performed in our laboratory			
Sample S2		114					0
All results	±	3	2,6	Impossible, risk of haemolysis			
	±	50	44	Decision depends on results of other tests not performed in our laboratory			
	±	18	16	Only if more suitable products are not available			
	±	43	38	Possible			