

EQA round: IH1/24 - Blood Group Serology

Deadline: 8.3.2024

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) ABO blood group		183			183	183	100
Samples E1 and S1		183			183	183	100
All results	RV >>>	183	100	Blood group: A			
Samples E2 and S2		183			183	183	100
All results	RV >>>	183	100	Blood group: 0			
(703) A subgroup		45			45	45	100
Samples E1 and S1		45			45	45	100
All results	RV >>>	45	100	A subgroup A1			
Samples E2 and S2		45			45	45	100
All results	RV >>>	45	100	Not specified			
(705) Rh D antigen (blood-donor)		105			105	74	70
Samples E1 and S1		105			105	105	100
All results	RV >>>	105	100	Positive (RhD+)			
Samples E2 and S2		105			105	74	70
All results		1	1	Not specified			
		30	29	Negative (RhD-)			
		> 20	19	Positive (RhD+)			
	RV >>>	54	51	w/v (RhD weak/variant)			
(709) Rh D antigen (recipient/ pregnant/ newborn)		175			175	173	99
Samples E1 and S1		175			175	175	100
All results	RV >>>	175	100	Positive (RhD+)			
Samples E2 and S2		175			175	173	99
All results	RV >>>	155	89	Negative (RhD-)			
		2	1,1	Positive (RhD+)			
	RV >>>	18	10	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	Positive			
Samples E2 and S2		94			94	94	100
All results	RV >>>	94	100	Positive			
(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		79			79	79	100
Samples E1 and S1		79			79	79	100
All results	RV >>>	79	100	Negative			
Samples E2 and S2		79			79	79	100
All results	RV >>>	79	100	Negative			
(720) Antigen K		103			103	103	100
Samples E1 and S1		103			103	103	100
All results	RV >>>	103	100	Negative			
Samples E2 and S2		103			103	103	100
All results	RV >>>	103	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			

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(738) Antigen Kp^a		18			18	17	94
Samples E1 and S1		18			18	17	94
All results	RV >>>	17	94	Negative			
		1	5,6	Positive			
Samples E2 and S2		18			18	17	94
All results	RV >>>	17	94	Negative			
		1	5,6	Positive			
(739) Antigen Kp^b		12			12	11	92
Samples E1 and S1		12			12	11	92
All results		1	8,3	Negative			
	RV >>>	11	92	Positive			
Samples E2 and S2		12			12	11	92
All results		1	8,3	Negative			
	RV >>>	11	92	Positive			
(729) Antigen Jk^a		47			47	47	100
Samples E1 and S1		47			47	47	100
All results	RV >>>	47	100	Negative			
Samples E2 and S2		47			47	47	100
All results	RV >>>	47	100	Positive			
(730) Antigen Jk^b		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	Negative			
(727) Antigen Fy^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		1	2,1	Negative			
	RV >>>	46	98	Positive			
(728) Antigen Fy^b		47			47	47	100
Samples E1 and S1		47			47	47	100
All results	RV >>>	47	100	Negative			
Samples E2 and S2		47			47	47	100
All results	RV >>>	47	100	Positive			
(722) Antigen M		46			46	46	100
Samples E1 and S1		46			46	46	100
All results	RV >>>	46	100	Positive			
Samples E2 and S2		46			46	46	100
All results	RV >>>	46	100	Positive			
(723) Antigen N		44			44	42	95
Samples E1 and S1		44			44	43	98
All results		1	2,3	Negative			
	RV >>>	43	98	Positive			
Samples E2 and S2		44			44	43	98
All results	RV >>>	43	98	Negative			
		1	2,3	Positive			
(724) Antigen S		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			
(725) Antigen s		46			46	46	100
Samples E1 and S1		46			46	46	100
All results	RV >>>	46	100	Positive			
Samples E2 and S2		46			46	46	100
All results	RV >>>	46	100	Negative			
(733) Antigen Le^a		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			
(734) Antigen Le^b		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			

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Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(731) Antigen Lu^a		32			32	31	97
Samples E1 and S1		32			32	31	97
All results	RV >>>	31	97	Negative			
		1	3,1	Positive			
Samples E2 and S2		32			32	31	97
All results	RV >>>	31	97	Negative			
		1	3,1	Positive			
(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		32			32	31	97
Samples E1 and S1		32			32	32	100
All results	RV >>>	32	100	Negative			
Samples E2 and S2		32			32	31	97
All results	RV >>>	1	3,1	Negative			
		31	97	Positive			
(740) Antigen Wr^a		9			9	8	89
Samples E1 and S1		9			9	9	100
All results	RV >>>	9	100	Negative			
Samples E2 and S2		9			9	8	89
All results	RV >>>	1	11	Not specified			
		8	89	Negative			
(737) Direct Coombs (antiglobulin) test		140			140	140	100
Samples E1 and S1		140			140	140	100
All results	RV >>>	140	100	Negative			
Samples E2 and S2		140			140	140	100
All results	RV >>>	140	100	Negative			
(741) Antibody screening (IAT, blood donor)		90			90	82	91
Samples E1 and S1		90			90	82	91
All results	RV >>>	8	8,9	Negative			
		82	91	Positive			
Samples E2 and S2		90			90	90	100
All results	RV >>>	90	100	Positive			
(743) Antibody screening (IAT, recipient)		161			161	154	96
Samples E1 and S1		161			161	155	96
All results	RV >>>	6	3,7	Negative			
		155	96	Positive			
Samples E2 and S2		161			161	160	99
All results	RV >>>	1	0,6	Negative			
		160	99	Positive			
(745) Antibody screening (IAT, pregnant)		133			133	126	95
Samples E1 and S1		133			133	127	95
All results	RV >>>	6	4,5	Negative			
		127	95	Positive			
Samples E2 and S2		133			133	132	99
All results	RV >>>	1	0,8	Negative			
		132	99	Positive			
(747) Antibody screening (enzyme test)		102			102	101	99
Samples E1 and S1		102			102	102	100
All results	RV >>>	102	100	Positive			
Samples E2 and S2		102			102	101	99
All results	RV >>>	1	1	Negative			
		101	99	Positive			
(750) Antibody identification		48			48	39	81
Samples E1 and S1		48			48	41	85
All results	RV >>>	5	10	anti-Jka			
		41	85	anti-Jka; anti-E			
		1	2,1	anti-Jka; anti-E; anti-Wra			
		1	2,1	anti-Jka; anti-P1			
Samples E2 and S2		48			48	41	85
All results	RV >>>	7	15	anti-K			
		41	85	anti-K; anti-E			
(752) Antibody titre, Sample 1: 1st antibody		39			0		
Samples E1 and S1		39			0		
All results	±	4	10	titre 0 (not measurable)			
	±	5	13	titre 1			
	±	18	46	titre 2			

Setup: all data

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
	±	7	18	titre 4			
	±	4	10	titre 8			
	±	1	2,6	titre 16			
(753) Antibody titre, Sample 1: 2nd antibody		19				0	
Samples E1 and S1		19				0	
All results	±	5	26	titre 0 (not measurable)			
	±	5	26	titre 1			
	±	5	26	titre 2			
	±	2	11	titre 4			
	±	2	11	titre 8			
(756) Antibody titre, Sample 2: 1st antibody		40				0	
Samples E2 and S2		40				0	
All results	±	1	2,5	titre 2			
	±	2	5	titre 32			
	±	7	18	titre 64			
	±	22	55	titre 128			
	±	6	15	titre 256			
	±	2	5	titre 512			
(757) Antibody titre, Sample 2: 2nd antibody		14				0	
Samples E2 and S2		14				0	
All results	±	5	36	titre 0 (not measurable)			
	±	4	29	titre 1			
	±	4	29	titre 2			
	±	1	7,1	titre 4			
Set 3							
(761) Crossmatch (segment K1)		130			130	130	100
Sample S1		130			130	130	100
All results		>	14	11	Negative test		
	RV	>>>	116	89	Positive test		
Sample S2		130			130	130	100
All results	RV	>>>	130	100	Positive test		
(762) Serve transfusion product? (segment K1)		130				0	
(transfusion in non-emergency mode)							
Sample S1		130				0	
All results	±	118	91	Impossible, risk of haemolysis			
	±	11	8,5	Decision depends on results of other tests not performed in our laboratory			
	±	1	0,8	Possible			
Sample S2		130				0	
All results	±	129	99	Impossible, risk of haemolysis			
	±	1	0,8	Decision depends on results of other tests not performed in our laboratory			
(764) Crossmatch (segment K2)		130			130	128	98
Sample S1		130			130	130	100
All results		>	1	0,8	Negative test		
	RV	>>>	129	99	Positive test		
Sample S2		130			130	128	98
All results	RV	>>>	128	98	Negative test		
		2	1,5	Positive test			
(765) Serve transfusion product? (segment K2)		130				0	
(transfusion in non-emergency mode)							
Sample S1		130				0	
All results	±	128	98	Impossible, risk of haemolysis			
	±	2	1,5	Decision depends on results of other tests not performed in our laboratory			
Sample S2		130				0	
All results	±	53	41	Impossible, risk of haemolysis			
	±	54	42	Decision depends on results of other tests not performed in our laboratory			
	±	9	6,9	Only if more suitable products are not available			
	±	14	11	Possible			