

EQA round: IH2/23 - Blood Group Serology

Deadline: 2.6.2023

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		149			149	149	100
Samples E1 and S1		149			149	149	100
All results	RV >>>	149	100	Blood group: A			
Samples E2 and S2		149			149	149	100
All results	RV >>>	149	100	Blood group: 0			
(703) A subgroup		44			44	42	95
Samples E1 and S1		44			44	42	95
All results		1	2,3	A subgroup A1			
	RV >>>	42	95	A subgroup A2			
		1	2,3	A subgroup A3			
Samples E2 and S2		44			44	44	100
All results	RV >>>	44	100	Not specified			
(705) Rh D antigen (blood-donor)		83			83	83	100
Samples E1 and S1		83			83	83	100
All results	RV >>>	83	100	Positive (RhD+)			
Samples E2 and S2		83			83	83	100
All results	RV >>>	83	100	Negative (RhD-)			
(709) Rh D antigen (recipient/ pregnant/ newborn)		140			140	140	100
Samples E1 and S1		140			140	140	100
All results	RV >>>	140	100	Positive (RhD+)			
Samples E2 and S2		140			140	140	100
All results	RV >>>	140	100	Negative (RhD-)			
(715) Antigen C		78			78	78	100
Samples E1 and S1		78			78	78	100
All results	RV >>>	78	100	Negative			
Samples E2 and S2		78			78	78	100
All results	RV >>>	78	100	Negative			
(716) Antigen c		78			78	78	100
Samples E1 and S1		78			78	78	100
All results	RV >>>	78	100	Positive			
Samples E2 and S2		78			78	78	100
All results	RV >>>	78	100	Positive			
(718) Antigen E		79			79	79	100
Samples E1 and S1		79			79	79	100
All results	RV >>>	79	100	Positive			
Samples E2 and S2		79			79	79	100
All results	RV >>>	79	100	Negative			
(719) Antigen e		78			78	77	99
Samples E1 and S1		78			78	77	99
All results		1	1,3	Negative			
	RV >>>	77	99	Positive			
Samples E2 and S2		78			78	77	99
All results		1	1,3	Negative			
	RV >>>	77	99	Positive			
(717) Antigen C^w		65			65	65	100
Samples E1 and S1		65			65	65	100
All results	RV >>>	65	100	Negative			
Samples E2 and S2		65			65	65	100
All results	RV >>>	65	100	Negative			
(720) Antigen K		84			84	84	100
Samples E1 and S1		84			84	84	100
All results	RV >>>	84	100	Negative			
Samples E2 and S2		84			84	84	100
All results	RV >>>	84	100	Negative			
(721) Antigen k		46			46	45	98
Samples E1 and S1		46			46	45	98
All results		1	2,2	Negative			
	RV >>>	45	98	Positive			
Samples E2 and S2		46			46	45	98
All results		1	2,2	Negative			
	RV >>>	45	98	Positive			

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(738) Antigen Kp^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	Negative				
(739) Antigen Kp^b		8			8	7	88	
Samples E1 and S1		8			8	7	88	
All results		1	13	Negative				
	RV >>>	7	88	Positive				
Samples E2 and S2		8			8	7	88	
All results		1	13	Negative				
	RV >>>	7	88	Positive				
(729) Antigen Jk^a		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	Negative				
(730) Antigen Jk^b		40			40	38	95	
Samples E1 and S1		40			40	39	98	
All results	RV >>>	39	98	Negative				
		1	2,5	Positive				
Samples E2 and S2		40			40	39	98	
All results		1	2,5	Negative				
	RV >>>	39	98	Positive				
(727) Antigen Fy^a		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				
(728) Antigen Fy^b		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				
(722) Antigen M		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				
(723) Antigen N		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				
(724) Antigen S		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				
(725) Antigen s		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				
(733) Antigen Le^a		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	Negative				
(734) Antigen Le^b		30			30	30	100	
Samples E1 and S1		30			30	30	100	
All results	RV >>>	30	100	Negative				
Samples E2 and S2		30			30	30	100	
All results	RV >>>	30	100	Positive				
(731) Antigen Lu^a		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				

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(732) Antigen Lu^b		22			22	22	100	
Samples E1 and S1		22			22	22	100	
All results	RV >>>	22	100	Positive				
Samples E2 and S2		22			22	22	100	
All results	RV >>>	22	100	Positive				
(726) Antigen P1		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				
(740) Antigen Wr^a		8			8	8	100	
Samples E1 and S1		8			8	8	100	
All results	RV >>>	8	100	Negative				
Samples E2 and S2		8			8	8	100	
All results	RV >>>	8	100	Negative				
(737) Direct Coombs (antiglobulin) test		122			122	122	100	
Samples E1 and S1		122			122	122	100	
All results	RV >>>	122	100	Negative				
Samples E2 and S2		122			122	122	100	
All results	RV >>>	122	100	Negative				
(741) Antibody screening (IAT, blood donor)		78			78	78	100	
Samples E1 and S1		78			78	78	100	
All results	RV >>>	78	100	Positive				
Samples E2 and S2		78			78	78	100	
All results	RV >>>	78	100	Positive				
(743) Antibody screening (IAT, recipient)		133			133	133	100	
Samples E1 and S1		133			133	133	100	
All results	RV >>>	133	100	Positive				
Samples E2 and S2		133			133	133	100	
All results	RV >>>	133	100	Positive				
(745) Antibody screening (IAT, pregnant)		107			107	107	100	
Samples E1 and S1		107			107	107	100	
All results	RV >>>	107	100	Positive				
Samples E2 and S2		107			107	107	100	
All results	RV >>>	107	100	Positive				
(747) Antibody screening (enzyme test)		103			103	102	99	
Samples E1 and S1		103			103	103	100	
All results	RV >>>	15	15	Negative				
		88	85	Positive				
Samples E2 and S2		103			103	102	99	
All results	RV >>>	1	1	Negative				
		102	99	Positive				
(750) Antibody identification		50			50	48	96	
Samples E1 and S1		50			50	50	100	
All results	RV >>>	50	100	anti-K				
Samples E2 and S2		50			50	48	96	
All results	RV >>>	1	2	Not specified				
		48	96	anti-D; anti-M				
		1	2	anti-M; anti-C; anti-E				
(752) Antibody titre, Sample 1: 1st antibody		33			0			
Samples E1 and S1		33			0			
All results	±	3	9,1	titre 8				
	±	12	36	titre 16				
	±	15	45	titre 32				
	±	1	3	titre 64				
	±	2	6,1	titre 128				
(756) Antibody titre, Sample 2: 1st antibody		32			0			
Samples E2 and S2		32			0			
All results	±	1	3,1	titre 16				
	±	7	22	titre 32				
	±	10	31	titre 64				
	±	10	31	titre 128				
	±	2	6,3	titre 256				
	±	1	3,1	titre 512				
	±	1	3,1	titre 2000				
(757) Antibody titre, Sample 2: 2nd antibody		33			0			
Samples E2 and S2		33			0			
All results	±	2	6,1	titre 32				
	±	5	15	titre 64				

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
	±	9	27	titre 128			
	±	4	12	titre 256			
	±	8	24	titre 512			
	±	4	12	titre 1000			
	±	1	3	titre 4000			
Set 3							
(760) Crossmatch		120			120	120	100
Sample S1		120			120	120	100
All results	RV	>>>	120	100	Crossmatch successful		
Sample S2		120			120	120	100
All results	RV	>>>	120	100	Crossmatch successful		
(761) Crossmatch (segment K1)		120			120	120	100
Sample S1		120			120	120	100
All results	RV	>>>	120	100	Positive test		
Sample S2		120			120	120	100
All results	RV	>>>	120	100	Positive test		
(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode)		120			0		
Sample S1		120			0		
All results	±	119	99	Impossible, risk of haemolysis			
	±	1	0,8	Decision depends on results of other tests not performed in our laboratory			
Sample S2		120			0		
All results	±	119	99	Impossible, risk of haemolysis			
	±	1	0,8	Decision depends on results of other tests not performed in our laboratory			
(764) Crossmatch (segment K2)		120			120	120	100
Sample S1		120			120	120	100
All results	RV	>>>	120	100	Negative test		
Sample S2		120			120	120	100
All results	RV	>>>	120	100	Positive test		
(765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode)		120			0		
Sample S1		120			0		
All results	±	63	53	Decision depends on results of other tests not performed in our laboratory			
	±	21	18	Only if more suitable products are not available			
	±	36	30	Possible			
Sample S2		120			0		
All results	±	118	98	Impossible, risk of haemolysis			
	±	2	1,7	Decision depends on results of other tests not performed in our laboratory			