

EQA round: IH3/24 - Blood Group Serology

Deadline: 27.9.2024

Setup: all data

AV = assigned value	N _{tot} = total number of the results	N _{eva} = number of the results assessed
RV = reference value	N _{rel} = relative number of the results	N _{suc} = number of successful results
>>> ... expected result		S _{rel} = relative success
> ... acceptable result		
± ... result not assessed		

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		164			164	164	100
Samples E1 and S1		164			164	164	100
All results	RV >>>	164	100	Blood group: B			
Samples E2 and S2		164			164	164	100
All results	RV >>>	164	100	Blood group: A			
(703) A subgroup		39			39	39	100
Samples E1 and S1		39			39	39	100
All results	RV >>>	39	100	Not specified			
Samples E2 and S2		39			39	39	100
All results	RV >>>	39	100	A subgroup A1			
(705) Rh D antigen (blood-donor)		95			95	93	98
Samples E1 and S1		95			95	93	98
All results		1	1,1	Not specified			
	RV >>>	93	98	Negative (RhD-)			
		1	1,1	w/v (RhD weak/variant)			
Samples E2 and S2		95			95	95	100
All results	RV >>>	95	100	Positive (RhD+)			
(709) Rh D antigen (recipient/ pregnant/ newborn)		153			153	152	99
Samples E1 and S1		153			153	152	99
All results	RV >>>	152	99	Negative (RhD-)			
		1	0,7	w/v (RhD weak/variant)			
Samples E2 and S2		153			153	153	100
All results	RV >>>	153	100	Positive (RhD+)			
(715) Antigen C		85			85	84	99
Samples E1 and S1		85			85	85	100
All results	RV >>>	85	100	Negative			
Samples E2 and S2		85			85	84	99
All results	RV >>>	1	1,2	Negative			
	RV >>>	84	99	Positive			
(716) Antigen c		85			85	84	99
Samples E1 and S1		85			85	85	100
All results	RV >>>	85	100	Positive			
Samples E2 and S2		85			85	84	99
All results	RV >>>	84	99	Negative			
		1	1,2	Positive			
(718) Antigen E		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	Negative			
(719) Antigen e		85			85	85	100
Samples E1 and S1		85			85	85	100
All results	RV >>>	85	100	Positive			
Samples E2 and S2		85			85	85	100
All results	RV >>>	85	100	Positive			
(717) Antigen C^w		73			73	73	100
Samples E1 and S1		73			73	73	100
All results	RV >>>	73	100	Negative			
Samples E2 and S2		73			73	73	100
All results	RV >>>	73	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			

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(738) Antigen Kp^a		20			20	20	100	
Samples E1 and S1		20			20	20	100	
All results	RV >>>	20	100	Negative				
Samples E2 and S2		20			20	20	100	
All results	RV >>>	20	100	Negative				
(739) Antigen Kp^b		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				
(729) Antigen Jk^a		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				
(730) Antigen Jk^b		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	Negative				
(727) Antigen Fy^a		44			44	44	100	
Samples E1 and S1		44			44	44	100	
All results	RV >>>	44	100	Positive				
Samples E2 and S2		44			44	44	100	
All results	RV >>>	44	100	Positive				
(728) Antigen Fy^b		44			44	44	100	
Samples E1 and S1		44			44	44	100	
All results	RV >>>	44	100	Positive				
Samples E2 and S2		44			44	44	100	
All results	RV >>>	44	100	Positive				
(722) Antigen M		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	Negative				
(723) Antigen N		41			41	41	100	
Samples E1 and S1		41			41	41	100	
All results	RV >>>	41	100	Positive				
Samples E2 and S2		41			41	41	100	
All results	RV >>>	41	100	Positive				
(724) Antigen S		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	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		34			34	32	94	
Samples E1 and S1		34			34	33	97	
All results	RV >>>	33	97	Negative				
		1	2,9	Positive				
Samples E2 and S2		34			34	32	94	
All results	RV >>>	32	94	Negative				
		2	5,9	Positive				
(734) Antigen Le^b		34			34	34	100	
Samples E1 and S1		34			34	34	100	
All results	RV >>>	34	100	Negative				
Samples E2 and S2		34			34	34	100	
All results	RV >>>	34	100	Negative				
(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				

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(732) Antigen Lu^b		28			28	27	96
Samples E1 and S1		28			28	27	96
All results		1	3,6	Negative			
	RV >>>	27	96	Positive			
Samples E2 and S2		28			28	27	96
All results		1	3,6	Negative			
	RV >>>	27	96	Positive			
(726) Antigen P1		29			29	28	97
Samples E1 and S1		29			29	29	100
All results	RV >>>	29	100	Positive			
Samples E2 and S2		29			29	28	97
All results		1	3,4	Negative			
	RV >>>	28	97	Positive			
(740) Antigen W^ra		8			8	7	88
Samples E1 and S1		8			8	7	88
All results	RV >>>	7	88	Negative			
		1	13	Positive			
Samples E2 and S2		8			8	7	88
All results	RV >>>	7	88	Negative			
		1	13	Positive			
(737) Direct Coombs (antiglobulin) test		125			125	125	100
Samples E1 and S1		125			125	125	100
All results	RV >>>	125	100	Negative			
Samples E2 and S2		125			125	125	100
All results	RV >>>	125	100	Negative			
(741) Antibody screening (IAT, blood donor)		80			80	80	100
Samples E1 and S1		80			80	80	100
All results	RV >>>	80	100	Positive			
Samples E2 and S2		80			80	80	100
All results	RV >>>	80	100	Positive			
(743) Antibody screening (IAT, recipient)		142			142	142	100
Samples E1 and S1		142			142	142	100
All results	RV >>>	142	100	Positive			
Samples E2 and S2		142			142	142	100
All results	RV >>>	142	100	Positive			
(745) Antibody screening (IAT, pregnant)		115			115	115	100
Samples E1 and S1		115			115	115	100
All results	RV >>>	115	100	Positive			
Samples E2 and S2		115			115	115	100
All results	RV >>>	115	100	Positive			
(747) Antibody screening (enzyme test)		90			90	90	100
Samples E1 and S1		90			90	90	100
All results	RV >>>	90	100	Positive			
Samples E2 and S2		90			90	90	100
All results	RV >>>	90	100	Positive			
(750) Antibody identification		46			46	42	91
Samples E1 and S1		46			46	45	98
All results	RV >>>	45	98	anti-D			
		1	2,2	anti-D; anti-Wra			
Samples E2 and S2		46			46	43	93
All results		9	20	anti-E			
	RV >>>	34	74	anti-E; anti-Jkb			
		2	4,3	anti-E; anti-Jkb; anti-M			
		1	2,2	anti-Jkb			
(752) Antibody titre, Sample 1: 1st antibody		38			0		
Samples E1 and S1		38			0		
All results		± 6	16	titre 8			
		± 15	39	titre 16			
		± 13	34	titre 32			
		± 4	11	titre 64			
(756) Antibody titre, Sample 2: 1st antibody		37			0		
Samples E2 and S2		37			0		
All results		± 5	14	titre 32			
		± 6	16	titre 64			
		± 13	35	titre 128			
		± 8	22	titre 256			
		± 2	5,4	titre 512			
		± 2	5,4	titre 1000			
		± 1	2,7	titre 2000			

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Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(757) Antibody titre, Sample 2: 2nd antibody					0		
Samples E2 and S2					0		
All results	±	8	53	titre 0 (not measurable)			
	±	3	20	titre 1			
	±	3	20	titre 2			
	±	1	6,7	titre 256			
Set 3							
(761) Crossmatch (segment K1)					116	116	100
Sample S1					116	116	100
All results	RV	>>>	116	100	Negative test		
Sample S2					116	116	100
All results	RV	>>>	116	100	Negative test		
(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode)					0		
Sample S1					116	0	
All results	±	1	0,9	Impossible, risk of haemolysis			
	±	53	46	Decision depends on results of other tests not performed in our laboratory			
	±	39	34	Only if more suitable products are not available			
	±	23	20	Possible			
Sample S2					116	0	
All results	±	33	28	Impossible, risk of haemolysis			
	±	55	47	Decision depends on results of other tests not performed in our laboratory			
	±	17	15	Only if more suitable products are not available			
	±	11	9,5	Possible			
(764) Crossmatch (segment K2)					116	116	100
Sample S1					116	116	100
All results	RV	>>>	116	100	Positive test		
Sample S2					116	116	100
All results	RV	>>>	116	100	Positive test		
(765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode)					0		
Sample S1					116	0	
All results	±	115	99	Impossible, risk of haemolysis			
	±	1	0,9	Decision depends on results of other tests not performed in our laboratory			
Sample S2					116	0	
All results	±	114	98	Impossible, risk of haemolysis			
	±	2	1,7	Decision depends on results of other tests not performed in our laboratory			