

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

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		173			173	170	98
Samples E1 and S1		173			173	170	98
All results		1	0,6	Not specified			
	RV >>>	170	98	Blood group: A			
		2	1,2	Blood group: B			
Samples E2 and S2		173			173	171	99
All results		2	1,2	Blood group: A			
	RV >>>	171	99	Blood group: B			
(703) A subgroup		50			50	49	98
Samples E1 and S1		50			50	49	98
All results		1	2	A subgroup A1			
	RV >>>	49	98	A subgroup A2			
Samples E2 and S2		50			50	50	100
All results	RV >>>	50	100	Not specified			
(705) RhD antigen (blood-donor)		97			97	97	100
Samples E1 and S1		97			97	97	100
All results	RV >>>	97	100	Positive (RhD+)			
Samples E2 and S2		97			97	97	100
All results	RV >>>	97	100	Positive (RhD+)			
(709) RhD antigen (recipient/ pregnant/ newborn)		167			167	167	100
Samples E1 and S1		167			167	167	100
All results	RV >>>	167	100	Positive (RhD+)			
Samples E2 and S2		167			167	167	100
All results	RV >>>	167	100	Positive (RhD+)			
(715) Antigen C		90			90	89	99
Samples E1 and S1		90			90	89	99
All results	RV >>>	89	99	Negative			
		1	1,1	Positive			
Samples E2 and S2		90			90	89	99
All results		1	1,1	Negative			
	RV >>>	89	99	Positive			
(716) Antigen c		90			90	89	99
Samples E1 and S1		90			90	89	99
All results		1	1,1	Negative			
	RV >>>	89	99	Positive			
Samples E2 and S2		90			90	89	99
All results	RV >>>	89	99	Negative			
		1	1,1	Positive			
(718) Antigen E		91			91	90	99
Samples E1 and S1		91			91	90	99
All results		1	1,1	Negative			
	RV >>>	90	99	Positive			
Samples E2 and S2		91			91	90	99
All results	RV >>>	90	99	Negative			
		1	1,1	Positive			
(719) Antigen e		90			90	89	99
Samples E1 and S1		90			90	89	99
All results		1	1,1	Negative			
	RV >>>	89	99	Positive			
Samples E2 and S2		90			90	90	100
All results	RV >>>	90	100	Positive			
(717) Antigen C^w		74			74	74	100
Samples E1 and S1		74			74	74	100
All results	RV >>>	74	100	Negative			
Samples E2 and S2		74			74	74	100
All results	RV >>>	74	100	Negative			
(720) Antigen K		97			97	95	98
Samples E1 and S1		97			97	96	99
All results	RV >>>	96	99	Negative			
		1	1	Positive			
Samples E2 and S2		97			97	95	98
All results		2	2,1	Negative			

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: all data

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
	RV >>>	95	98	Positive			
(721) Antigen k		49			49	47	96
Samples E1 and S1		49			49	48	98
All results		1	2	Not specified			
	RV >>>	48	98	Positive			
Samples E2 and S2		49			49	48	98
All results		1	2	Negative			
	RV >>>	48	98	Positive			
(738) Antigen Kp ^a		15			15	14	93
Samples E1 and S1		15			15	14	93
All results		1	6,7	Not specified			
	RV >>>	14	93	Negative			
Samples E2 and S2		15			15	15	100
All results		1	100	Negative			
	RV >>>	15	100	Negative			
(739) Antigen Kp ^b		6			6	6	100
Samples E1 and S1		6			6	6	100
All results		6	100	Positive			
	RV >>>	6	100	Positive			
Samples E2 and S2		6			6	6	100
All results		6	100	Positive			
	RV >>>	6	100	Positive			
(729) Antigen Jk ^a		45			45	45	100
Samples E1 and S1		45			45	45	100
All results		45	100	Negative			
	RV >>>	45	100	Negative			
Samples E2 and S2		45			45	45	100
All results		45	100	Negative			
	RV >>>	45	100	Negative			
(730) Antigen Jk ^b		44			44	44	100
Samples E1 and S1		44			44	44	100
All results		44	100	Positive			
	RV >>>	44	100	Positive			
Samples E2 and S2		44			44	44	100
All results		44	100	Positive			
	RV >>>	44	100	Positive			
(727) Antigen Fy ^a		44			44	44	100
Samples E1 and S1		44			44	44	100
All results		44	100	Negative			
	RV >>>	44	100	Negative			
Samples E2 and S2		44			44	44	100
All results		44	100	Positive			
	RV >>>	44	100	Positive			
(728) Antigen Fy ^b		45			45	45	100
Samples E1 and S1		45			45	45	100
All results		45	100	Positive			
	RV >>>	45	100	Positive			
Samples E2 and S2		45			45	45	100
All results		45	100	Positive			
	RV >>>	45	100	Positive			
(722) Antigen M		44			44	43	98
Samples E1 and S1		44			44	44	100
All results		44	100	Negative			
	RV >>>	44	100	Negative			
Samples E2 and S2		44			44	43	98
All results		1	2,3	Negative			
	RV >>>	43	98	Positive			
(723) Antigen N		40			40	39	98
Samples E1 and S1		40			40	39	98
All results		1	2,5	Negative			
	RV >>>	39	98	Positive			
Samples E2 and S2		40			40	39	98
All results		1	2,5	Negative			
	RV >>>	39	98	Positive			
(724) Antigen S		42			42	41	98
Samples E1 and S1		42			42	41	98
All results		41	98	Negative			
	RV >>>	41	98	Negative			
Samples E2 and S2		42			42	41	98
All results		1	2,4	Positive			
	RV >>>	41	98	Negative			
(725) Antigen s		42			42	42	100
Samples E1 and S1		42			42	42	100
All results		42	100	Positive			
	RV >>>	42	100	Positive			
Samples E2 and S2		42			42	42	100
All results		42	100	Positive			
	RV >>>	42	100	Positive			
(733) Antigen Le ^a		36			36	36	100
Samples E1 and S1		36			36	36	100
All results		36	100	Negative			
	RV >>>	36	100	Negative			
Samples E2 and S2		36			36	36	100
All results		36	100	Negative			
	RV >>>	36	100	Negative			

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: all data

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(734) Antigen Le^b		36			36	36	100	
Samples E1 and S1		36			36	36	100	
All results	RV >>>	36	100	Positive				
Samples E2 and S2		36			36	36	100	
All results	RV >>>	36	100	Positive				
(731) Antigen Lu^a		26			26	24	92	
Samples E1 and S1		26			26	24	92	
All results	RV >>>	24	92	Negative				
		2	7,7	Positive				
Samples E2 and S2		26			26	26	100	
All results	RV >>>	26	100	Negative				
(732) Antigen Lu^b		23			23	23	100	
Samples E1 and S1		23			23	23	100	
All results	RV >>>	23	100	Positive				
Samples E2 and S2		23			23	23	100	
All results	RV >>>	23	100	Positive				
(726) Antigen P1		30			30	29	97	
Samples E1 and S1		30			30	29	97	
All results	RV >>>	29	97	Negative				
		1	3,3	Positive				
Samples E2 and S2		30			30	30	100	
All results	RV >>>	30	100	Negative				
(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		144			144	143	99	
Samples E1 and S1		144			144	143	99	
All results	RV >>>	143	99	Negative				
		1	0,7	Positive				
Samples E2 and S2		144			144	144	100	
All results	RV >>>	144	100	Negative				
(741) Antierythrocyte antibody screening (IAT, blood donor)		89			89	88	99	
Samples E1 and S1		89			89	88	99	
All results	RV >>>	1	1,1	Negative				
		88	99	Positive				
Samples E2 and S2		89			89	89	100	
All results	RV >>>	89	100	Positive				
(743) Antierythrocyte antibody screening (IAT, recipient)		157			157	157	100	
Samples E1 and S1		157			157	157	100	
All results	RV >>>	157	100	Positive				
Samples E2 and S2		157			157	157	100	
All results	RV >>>	157	100	Positive				
(745) Antierythrocyte antibody screening (IAT, pregnant)		125			125	125	100	
Samples E1 and S1		125			125	125	100	
All results	RV >>>	125	100	Positive				
Samples E2 and S2		125			125	125	100	
All results	RV >>>	125	100	Positive				
(747) Antierythrocyte antibody screening (enzyme test)		111			111	111	100	
Samples E1 and S1		111			111	111	100	
All results	RV >>>	20	18	Negative				
		91	82	Positive				
Samples E2 and S2		111			111	111	100	
All results	RV >>>	111	100	Positive				
(750) Antierythrocyte antibody identification		55			55	50	91	
Samples E1 and S1		55			55	54	98	
All results	RV >>>	54	98	anti-K; anti-M				
		1	1,8	anti-M				
Samples E2 and S2		55			55	51	93	
All results	RV >>>	2	3,6	anti-c				
		51	93	anti-c; anti-Jka				
		1	1,8	anti-c; anti-Jka; anti-P1				
		1	1,8	anti-c; anti-Lea				

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: all data

Test Sample Group	Frequency of the results				Success			
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(752) Antibody titre, Sample 1: 1st antibody		37				0		
Samples E1 and S1		37				0		
All results	±	8	22	titre 8				
	±	21	57	titre 16				
	±	7	19	titre 32				
	±	1	2,7	titre 64				
(753) Antibody titre, Sample 1: 2nd antibody		37				0		
Samples E1 and S1		37				0		
All results	±	1	2,7	titre 0 (not measurable)				
	±	8	22	titre 4				
	±	6	16	titre 8				
	±	6	16	titre 16				
	±	12	32	titre 32				
	±	4	11	titre 64				
(756) Antibody titre, Sample 2: 1st antibody		36				0		
Samples E2 and S2		36				0		
All results	±	1	2,8	titre 4				
	±	5	14	titre 8				
	±	7	19	titre 16				
	±	7	19	titre 32				
	±	8	22	titre 64				
	±	7	19	titre 128				
	±	1	2,8	titre 256				
(757) Antibody titre, Sample 2: 2nd antibody		34				0		
Samples E2 and S2		34				0		
All results	±	1	2,9	titre 0 (not measurable)				
	±	9	26	titre 1				
	±	8	24	titre 2				
	±	9	26	titre 4				
	±	4	12	titre 8				
	±	2	5,9	titre 16				
	±	1	2,9	titre 64				
Set 3								
(761) Compatibility test (segment K1)		137				137	136	99
Sample S1		137				137	137	100
All results	RV	>>>	137	100	Positive test			
Sample S2		137				137	136	99
All results		1	0,7		Negative test			
	RV	>>>	136	99	Positive test			
(762) Serve transfusion product? (segment K1)		138						0
(transfusion in non-emergency mode)								
Sample S1		138						0
All results	±	138	100		Impossible, risk of haemolysis			
Sample S2		138						0
All results	±	137	99		Impossible, risk of haemolysis			
	±	1	0,7		Decision depends on results of other tests not performed in our laboratory			
(764) Compatibility test (segment K2)		137				137	136	99
Sample S1		137				137	136	99
All results	RV	>>>	136	99	Negative test			
		1	0,7		Positive test			
Sample S2		137				137	137	100
All results	RV	>>>	137	100	Negative test			
(765) Serve transfusion product? (segment K2)		138						0
(transfusion in non-emergency mode)								
Sample S1		138						0
All results	±	6	4,3		Impossible, risk of haemolysis			
	±	73	53		Decision depends on results of other tests not performed in our laboratory			
	±	43	31		Only if more suitable products are not available			
	±	16	12		Possible			
Sample S2		138						0
All results	±	77	56		Decision depends on results of other tests not performed in our laboratory			
	±	28	20		Only if more suitable products are not available			
	±	33	24		Possible			