Summary statistics - qualitative results

EQA round: IH2/24 - Blood Group Serology

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	AV	N_{tot}	N_{rel} [%]	Result	N_{eva}	N_{suc}	S_{rel} [%]
Set 1 and 2							
(700) AB0 blood group		159			159	158	99
Samples E1 and S1		159			159	159	100
All results	>	8	5	Not specified			
	RV >>>	151	95	Blood group: A			
Samples E2 and S2		159			159	158	99
All results		1	0,6	Blood group: A			
	RV >>>	158	99	Blood group: AB			
(703) A subgroup		47			47	43	91
Samples E1 and S1		47			47	47	100
All results	RV >>>	47	100	A subgroup A1			
Samples E2 and S2		47			47	43	91
All results		2	4,3	Not specified			
	RV >>>	43	91	A subgroup A1			
		2	4,3	A subgroup A2			
(705) Rh D antigen (blood-donor)		90			90	90	100
Samples E1 and S1		90			90	90	100
All results	RV >>>	90	100	Negative (RhD-)			
Samples E2 and S2		90			90	90	100
All results	RV >>>	90	100	Positive (RhD+)			
(709) Rh D antigen (recipient/ pregnant/ newborn)		152			152	152	100
Samples E1 and S1		152			152	152	100
All results	RV >>>	152	100	Negative (RhD-)			
Samples E2 and S2		152			152	152	100
All results	RV >>>	152	100	Positive (RhD+)			
(715) Antigen C		84			84	84	100
Samples E1 and S1		84			84	84	100
All results	RV >>>	84	100	Positive			
Samples E2 and S2		84			84	84	100
All results	RV >>>	84	100	Positive			
(716) Antigen c		84			84	84	100
Samples E1 and S1		84			84	84	100
All results	RV >>>	84	100	Positive			
Samples E2 and S2		84			84	84	100
All results	RV >>>	84	100	Negative			
(718) Antigen E		85			85	84	99
Samples E1 and S1		85			85	84	99
All results	RV >>>	84	99	Negative			
		1	1,2	Positive			
Samples E2 and S2		85			85	85	100
All results	RV >>>	85	100	Negative			
(719) Antigen e		84			84	84	100
Samples E1 and S1		84			84	84	100
All results	RV >>>	84	100	Positive			
Samples E2 and S2		84			84	84	100
All results	RV >>>	84	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		91			91	91	100
Samples E1 and S1		91			91	91	100
All results	RV >>>	91	100	Negative			
Samples E2 and S2		91			91	91	100
All results	RV >>>	91	100	Negative			
(721) Antigen k		45			45	45	100
Samples E1 and S1		45			45	45	100
All results	RV >>>	45	100	Positive			
Samples E2 and S2		45			45	45	100
All results	RV >>>	45	100	Positive			

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Setup: all data

Test Sample Group	AV		N_{tot}	N_{rel} [%]	Frequency of the results Result	Success 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	8	100
Samples E1 and S1			8			8	8	100
All results	RV	>>>	8	100	Positive			
Samples E2 and S2			8			8	8	100
All results	RV	>>>	8	100	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	Positive			
(730) Antigen Jk^b			40			40	38	95
Samples E1 and S1			40			40	38	95
All results			2	5	Negative			
	RV	>>>	38	95	Positive			
Samples E2 and S2			40			40	40	100
All results	RV	>>>	40	100	Negative			
(727) Antigen Fy^a			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	Negative			
(728) Antigen Fy^b			41			41	40	98
Samples E1 and S1			41			41	41	100
All results	RV	>>>	41	100	Positive			
Samples E2 and S2			41			41	40	98
All results			1	2,4	Negative			
	RV	>>>	40	98	Positive			
(722) Antigen M			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	Negative			
(723) Antigen N			37			37	35	95
Samples E1 and S1			37			37	37	100
All results	RV	>>>	37	100	Negative			
Samples E2 and S2			37			37	35	95
All results			2	5,4	Negative			
	RV	>>>	35	95	Positive			
(724) Antigen S			39			39	38	97
Samples E1 and S1			39			39	39	100
All results	RV	>>>	39	100	Positive			
Samples E2 and S2			39			39	38	97
All results	RV	>>>	38	97	Negative			
			1	2,6	Positive			
(725) Antigen s			40			40	39	98
Samples E1 and S1			40			40	40	100
All results	RV	>>>	40	100	Negative			
Samples E2 and S2			40			40	39	98
All results			1	2,5	Negative			
	RV	>>>	39	98	Positive			
(733) Antigen Le^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	Positive			
(734) Antigen Le^b			30			30	29	97
Samples E1 and S1			30			30	29	97
All results			1	3,3	Negative			
	RV	>>>	29	97	Positive			
Samples E2 and S2			30			30	30	100
All results	RV	>>>	30	100	Negative			
(731) Antigen Lu^a			25			25	25	100
Samples E1 and S1			25			25	25	100
All results	RV	>>>	25	100	Negative			

Summary statistics - qualitative results

Test Sample Group	AV		N_{tot}	N_{rel} [%]	Result	N_{eva}	N_{suc}	S_{rel} [%]
Samples E2 and S2			25			25	25	100
All results	RV	>>>	25	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			27			27	25	93
Samples E1 and S1			27			27	27	100
All results	RV	>>>	1	3,7	Negative			
	RV	>>>	26	96	Positive			
Samples E2 and S2			27			27	25	93
All results			2	7,4	Negative			
	RV	>>>	25	93	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			129			129	129	100
Samples E1 and S1			129			129	129	100
All results	RV	>>>	129	100	Negative			
Samples E2 and S2			129			129	129	100
All results	RV	>>>	129	100	Negative			
(741) Antibody screening (IAT, blood donor)			82			82	82	100
Samples E1 and S1			82			82	82	100
All results	RV	>>>	82	100	Positive			
Samples E2 and S2			82			82	82	100
All results	RV	>>>	82	100	Positive			
(743) Antibody screening (IAT, recipient)			143			143	143	100
Samples E1 and S1			143			143	143	100
All results	RV	>>>	143	100	Positive			
Samples E2 and S2			143			143	143	100
All results	RV	>>>	143	100	Positive			
(745) Antibody screening (IAT, pregnant)			117			117	117	100
Samples E1 and S1			117			117	117	100
All results	RV	>>>	117	100	Positive			
Samples E2 and S2			117			117	117	100
All results	RV	>>>	117	100	Positive			
(747) Antibody screening (enzyme test)			107			107	105	98
Samples E1 and S1			107			107	106	99
All results			1	0,9	Not specified			
	RV	>>>	83	78	Negative			
	RV	>>>	23	21	Positive			
Samples E2 and S2			107			107	106	99
All results	RV	>>>	106	99	Negative			
			1	0,9	Positive			
(750) Antibody identification			54			54	54	100
Samples E1 and S1			54			54	54	100
All results	RV	>>>	54	100	anti-s			
Samples E2 and S2			54			54	54	100
All results	RV	>>>	54	100	anti-Fya			
(752) Antibody titre, Sample 1: 1st antibody			36			0		
Samples E1 and S1			36			0		
All results		±	4	11	titre 4			
		±	6	17	titre 8			
		±	16	44	titre 16			
		±	5	14	titre 32			
		±	4	11	titre 64			
		±	1	2,8	titre 128			
(756) Antibody titre, Sample 2: 1st antibody			36			0		
Samples E2 and S2			36			0		
All results		±	1	2,8	titre 16			
		±	4	11	titre 32			
		±	9	25	titre 64			
		±	14	39	titre 128			
		±	6	17	titre 256			
		±	2	5,6	titre 512			

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Setup: all data

Test Sample Group		AV		N_{tot}	N_{rel} [%]	Frequency of the results — Result	N_{eva}	Success N_{suc}	S_{rel} [%]
Set 3									
(761) Crossmatch (segment K1)				129			129	129	100
Sample S1				129			129	129	100
All results	RV	>>>		129	100	Negative test			
Sample S2				129			129	129	100
All results	RV	>>>		129	100	Positive test			
(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode)				129			0		
Sample S1				129			0		
All results			±	22	17	Impossible, risk of haemolysis			
			±	62	48	Decision depends on results of other tests not performed in our laboratory			
			±	37	29	Only if more suitable products are not available			
			±	8	6,2	Possible			
Sample S2				129			0		
All results			±	129	100	Impossible, risk of haemolysis			
(764) Crossmatch (segment K2)				129			129	129	100
Sample S1				129			129	129	100
All results	RV	>>>		129	100	Positive test			
Sample S2				129			129	129	100
All results	RV	>>>		129	100	Negative test			
(765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode)				129			0		
Sample S1				129			0		
All results			±	129	100	Impossible, risk of haemolysis			
Sample S2				129			0		
All results			±	2	1,6	Impossible, risk of haemolysis			
			±	67	52	Decision depends on results of other tests not performed in our laboratory			
			±	39	30	Only if more suitable products are not available			
			±	21	16	Possible			