

EQA round: IH2/24 - Blood Group Serology

Deadline: 31.5.2024

Setup: groups - R (manufacturer of kit)

AV = assigned value
 RV = reference value
 >>> ... expected result
 > ... acceptable result
 ± ... result not assessed

N_{tot} = total number of the results
 N_{rel} = relative number of the results

N_{eva} = number of the results assessed
 N_{suc} = number of successful results
 S_{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		159					159	158	99
Samples E1 and S1		159					159	159	100
(6) APR	RV	>>>	2	1,3	Blood group: A				
(14) Bio-Rad		>	1	0,6	Not specified				
	RV	>>>	48	30	Blood group: A				
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,6	Blood group: A				
(64) Exbio Olomouc	RV	>>>	10	6,3	Blood group: A				
(80) DiaMed	RV	>>>	9	5,7	Blood group: A				
(159) Grifols		>	6	3,8	Not specified				
	RV	>>>	41	26	Blood group: A				
(172) Immucor		>	1	0,6	Not specified				
	RV	>>>	23	14	Blood group: A				
(173) Sanguin	RV	>>>	7	4,4	Blood group: A				
(174) IVT Imuno	RV	>>>	5	3,1	Blood group: A				
(183) Immunodiagnostic Systems	RV	>>>	1	0,6	Blood group: A				
(203) ANTITOXIN	RV	>>>	1	0,6	Blood group: A				
(999) another manufacturer	RV	>>>	3	1,9	Blood group: A				
Samples E2 and S2		159					159	158	99
(6) APR	RV	>>>	2	1,3	Blood group: AB				
(14) Bio-Rad	RV	>>>	49	31	Blood group: AB				
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,6	Blood group: AB				
(64) Exbio Olomouc	RV	>>>	10	6,3	Blood group: AB				
(80) DiaMed	RV	>>>	9	5,7	Blood group: AB				
(159) Grifols			1	0,6	Blood group: A				
	RV	>>>	46	29	Blood group: AB				
(172) Immucor	RV	>>>	24	15	Blood group: AB				
(173) Sanguin	RV	>>>	7	4,4	Blood group: AB				
(174) IVT Imuno	RV	>>>	5	3,1	Blood group: AB				
(183) Immunodiagnostic Systems	RV	>>>	1	0,6	Blood group: AB				
(203) ANTITOXIN	RV	>>>	1	0,6	Blood group: AB				
(999) another manufacturer	RV	>>>	3	1,9	Blood group: AB				
(703) A subgroup		47					47	43	91
Samples E1 and S1		47					47	47	100
(0) not specified	RV	>>>	47	100	A subgroup A1				
Samples E2 and S2		47					47	43	91
(0) not specified			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
(6) APR	RV	>>>	5	5,6	Negative (RhD-)				
(14) Bio-Rad	RV	>>>	25	28	Negative (RhD-)				
(64) Exbio Olomouc	RV	>>>	6	6,7	Negative (RhD-)				
(80) DiaMed	RV	>>>	2	2,2	Negative (RhD-)				
(159) Grifols	RV	>>>	25	28	Negative (RhD-)				
(172) Immucor	RV	>>>	21	23	Negative (RhD-)				
(173) Sanguin	RV	>>>	1	1,1	Negative (RhD-)				
(174) IVT Imuno	RV	>>>	3	3,3	Negative (RhD-)				
(203) ANTITOXIN	RV	>>>	1	1,1	Negative (RhD-)				
(999) another manufacturer	RV	>>>	1	1,1	Negative (RhD-)				
Samples E2 and S2		90					90	90	100
(6) APR	RV	>>>	5	5,6	Positive (RhD+)				
(14) Bio-Rad	RV	>>>	25	28	Positive (RhD+)				
(64) Exbio Olomouc	RV	>>>	6	6,7	Positive (RhD+)				
(80) DiaMed	RV	>>>	2	2,2	Positive (RhD+)				
(159) Grifols	RV	>>>	25	28	Positive (RhD+)				
(172) Immucor	RV	>>>	21	23	Positive (RhD+)				
(173) Sanguin	RV	>>>	1	1,1	Positive (RhD+)				
(174) IVT Imuno	RV	>>>	3	3,3	Positive (RhD+)				
(203) ANTITOXIN	RV	>>>	1	1,1	Positive (RhD+)				
(999) another manufacturer	RV	>>>	1	1,1	Positive (RhD+)				

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Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(709) Rh D antigen (recipient/ pregnant/ newborn)		152			152	152	100	
Samples E1 and S1		152			152	152	100	
(6) APR	RV >>>	2	1,3	Negative (RhD-)				
(14) Bio-Rad	RV >>>	47	31	Negative (RhD-)				
(40) Ortho Clinical Diagnostics	RV >>>	1	0,7	Negative (RhD-)				
(50) Merck	RV >>>	1	0,7	Negative (RhD-)				
(52) Dynex	RV >>>	1	0,7	Negative (RhD-)				
(64) Exbio Olomouc	RV >>>	9	5,9	Negative (RhD-)				
(80) DiaMed	RV >>>	9	5,9	Negative (RhD-)				
(159) Grifols	RV >>>	46	30	Negative (RhD-)				
(171) Diagast	RV >>>	1	0,7	Negative (RhD-)				
(172) Immucor	RV >>>	22	14	Negative (RhD-)				
(173) Sanguin	RV >>>	4	2,6	Negative (RhD-)				
(174) IVT Imuno	RV >>>	4	2,6	Negative (RhD-)				
(203) ANTITOXIN	RV >>>	1	0,7	Negative (RhD-)				
(999) another manufacturer	RV >>>	4	2,6	Negative (RhD-)				
Samples E2 and S2		152			152	152	100	
(6) APR	RV >>>	2	1,3	Positive (RhD+)				
(14) Bio-Rad	RV >>>	47	31	Positive (RhD+)				
(40) Ortho Clinical Diagnostics	RV >>>	1	0,7	Positive (RhD+)				
(50) Merck	RV >>>	1	0,7	Positive (RhD+)				
(52) Dynex	RV >>>	1	0,7	Positive (RhD+)				
(64) Exbio Olomouc	RV >>>	9	5,9	Positive (RhD+)				
(80) DiaMed	RV >>>	9	5,9	Positive (RhD+)				
(159) Grifols	RV >>>	46	30	Positive (RhD+)				
(171) Diagast	RV >>>	1	0,7	Positive (RhD+)				
(172) Immucor	RV >>>	22	14	Positive (RhD+)				
(173) Sanguin	RV >>>	4	2,6	Positive (RhD+)				
(174) IVT Imuno	RV >>>	4	2,6	Positive (RhD+)				
(203) ANTITOXIN	RV >>>	1	0,7	Positive (RhD+)				
(999) another manufacturer	RV >>>	4	2,6	Positive (RhD+)				
(715) Antigen C		84			84	84	100	
Samples E1 and S1		84			84	84	100	
(6) APR	RV >>>	1	1,2	Positive				
(14) Bio-Rad	RV >>>	32	38	Positive				
(50) Merck	RV >>>	1	1,2	Positive				
(64) Exbio Olomouc	RV >>>	1	1,2	Positive				
(80) DiaMed	RV >>>	7	8,3	Positive				
(159) Grifols	RV >>>	23	27	Positive				
(172) Immucor	RV >>>	13	15	Positive				
(173) Sanguin	RV >>>	2	2,4	Positive				
(174) IVT Imuno	RV >>>	2	2,4	Positive				
(203) ANTITOXIN	RV >>>	2	2,4	Positive				
Samples E2 and S2		84			84	84	100	
(6) APR	RV >>>	1	1,2	Positive				
(14) Bio-Rad	RV >>>	32	38	Positive				
(50) Merck	RV >>>	1	1,2	Positive				
(64) Exbio Olomouc	RV >>>	1	1,2	Positive				
(80) DiaMed	RV >>>	7	8,3	Positive				
(159) Grifols	RV >>>	23	27	Positive				
(172) Immucor	RV >>>	13	15	Positive				
(173) Sanguin	RV >>>	2	2,4	Positive				
(174) IVT Imuno	RV >>>	2	2,4	Positive				
(203) ANTITOXIN	RV >>>	2	2,4	Positive				
(716) Antigen c		84			84	84	100	
Samples E1 and S1		84			84	84	100	
(6) APR	RV >>>	1	1,2	Positive				
(14) Bio-Rad	RV >>>	32	38	Positive				
(50) Merck	RV >>>	1	1,2	Positive				
(64) Exbio Olomouc	RV >>>	1	1,2	Positive				
(80) DiaMed	RV >>>	7	8,3	Positive				
(159) Grifols	RV >>>	23	27	Positive				
(172) Immucor	RV >>>	13	15	Positive				
(173) Sanguin	RV >>>	2	2,4	Positive				
(174) IVT Imuno	RV >>>	2	2,4	Positive				
(203) ANTITOXIN	RV >>>	2	2,4	Positive				
Samples E2 and S2		84			84	84	100	
(6) APR	RV >>>	1	1,2	Negative				

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(14) Bio-Rad	RV	>>>	32	38	Negative			
(50) Merck	RV	>>>	1	1,2	Negative			
(64) Exbio Olomouc	RV	>>>	1	1,2	Negative			
(80) DiaMed	RV	>>>	7	8,3	Negative			
(159) Grifols	RV	>>>	23	27	Negative			
(172) Immucor	RV	>>>	13	15	Negative			
(173) Sanguin	RV	>>>	2	2,4	Negative			
(174) IVT Imuno	RV	>>>	2	2,4	Negative			
(203) ANTITOXIN	RV	>>>	2	2,4	Negative			
(718) Antigen E			85			85	84	99
Samples E1 and S1			85			85	84	99
(6) APR	RV	>>>	1	1,2	Negative			
(14) Bio-Rad	RV	>>>	32	38	Negative			
(50) Merck	RV	>>>	1	1,2	Negative			
(64) Exbio Olomouc	RV	>>>	1	1,2	Negative			
(80) DiaMed	RV	>>>	7	8,2	Negative			
(159) Grifols	RV	>>>	23	27	Negative			
(172) Immucor	RV	>>>	1	1,2	Positive			
(173) Sanguin	RV	>>>	13	15	Negative			
(174) IVT Imuno	RV	>>>	2	2,4	Negative			
(203) ANTITOXIN	RV	>>>	2	2,4	Negative			
Samples E2 and S2			85			85	85	100
(6) APR	RV	>>>	1	1,2	Negative			
(14) Bio-Rad	RV	>>>	32	38	Negative			
(50) Merck	RV	>>>	1	1,2	Negative			
(64) Exbio Olomouc	RV	>>>	1	1,2	Negative			
(80) DiaMed	RV	>>>	7	8,2	Negative			
(159) Grifols	RV	>>>	24	28	Negative			
(172) Immucor	RV	>>>	13	15	Negative			
(173) Sanguin	RV	>>>	2	2,4	Negative			
(174) IVT Imuno	RV	>>>	2	2,4	Negative			
(203) ANTITOXIN	RV	>>>	2	2,4	Negative			
(719) Antigen e			84			84	84	100
Samples E1 and S1			84			84	84	100
(6) APR	RV	>>>	1	1,2	Positive			
(14) Bio-Rad	RV	>>>	31	37	Positive			
(17) Biogema	RV	>>>	1	1,2	Positive			
(50) Merck	RV	>>>	1	1,2	Positive			
(64) Exbio Olomouc	RV	>>>	1	1,2	Positive			
(80) DiaMed	RV	>>>	7	8,3	Positive			
(159) Grifols	RV	>>>	23	27	Positive			
(172) Immucor	RV	>>>	13	15	Positive			
(173) Sanguin	RV	>>>	2	2,4	Positive			
(174) IVT Imuno	RV	>>>	2	2,4	Positive			
(203) ANTITOXIN	RV	>>>	2	2,4	Positive			
Samples E2 and S2			84			84	84	100
(6) APR	RV	>>>	1	1,2	Positive			
(14) Bio-Rad	RV	>>>	31	37	Positive			
(17) Biogema	RV	>>>	1	1,2	Positive			
(50) Merck	RV	>>>	1	1,2	Positive			
(64) Exbio Olomouc	RV	>>>	1	1,2	Positive			
(80) DiaMed	RV	>>>	7	8,3	Positive			
(159) Grifols	RV	>>>	23	27	Positive			
(172) Immucor	RV	>>>	13	15	Positive			
(173) Sanguin	RV	>>>	2	2,4	Positive			
(174) IVT Imuno	RV	>>>	2	2,4	Positive			
(203) ANTITOXIN	RV	>>>	2	2,4	Positive			
(717) Antigen C^w			74			74	74	100
Samples E1 and S1			74			74	74	100
(6) APR	RV	>>>	1	1,4	Negative			
(14) Bio-Rad	RV	>>>	25	34	Negative			
(50) Merck	RV	>>>	1	1,4	Negative			
(64) Exbio Olomouc	RV	>>>	2	2,7	Negative			
(80) DiaMed	RV	>>>	2	2,7	Negative			
(159) Grifols	RV	>>>	23	31	Negative			
(170) Biotest	RV	>>>	1	1,4	Negative			
(172) Immucor	RV	>>>	13	18	Negative			
(173) Sanguin	RV	>>>	3	4,1	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} [%]	
(174) IVT Imuno	RV	>>>	1	1,4	Negative			
(203) ANTITOXIN	RV	>>>	2	2,7	Negative			
Samples E2 and S2			74			74	74	100
(6) APR	RV	>>>	1	1,4	Negative			
(14) Bio-Rad	RV	>>>	25	34	Negative			
(50) Merck	RV	>>>	1	1,4	Negative			
(64) Exbio Olomouc	RV	>>>	2	2,7	Negative			
(80) DiaMed	RV	>>>	2	2,7	Negative			
(159) Grifols	RV	>>>	23	31	Negative			
(170) Biotest	RV	>>>	1	1,4	Negative			
(172) Immucor	RV	>>>	13	18	Negative			
(173) Sanguin	RV	>>>	3	4,1	Negative			
(174) IVT Imuno	RV	>>>	1	1,4	Negative			
(203) ANTITOXIN	RV	>>>	2	2,7	Negative			
(720) Antigen K			91			91	91	100
Samples E1 and S1			91			91	91	100
(6) APR	RV	>>>	1	1,1	Negative			
(14) Bio-Rad	RV	>>>	30	33	Negative			
(50) Merck	RV	>>>	1	1,1	Negative			
(80) DiaMed	RV	>>>	7	7,7	Negative			
(159) Grifols	RV	>>>	31	34	Negative			
(172) Immucor	RV	>>>	13	14	Negative			
(173) Sanguin	RV	>>>	3	3,3	Negative			
(174) IVT Imuno	RV	>>>	4	4,4	Negative			
(203) ANTITOXIN	RV	>>>	1	1,1	Negative			
Samples E2 and S2			91			91	91	100
(6) APR	RV	>>>	1	1,1	Negative			
(14) Bio-Rad	RV	>>>	30	33	Negative			
(50) Merck	RV	>>>	1	1,1	Negative			
(80) DiaMed	RV	>>>	7	7,7	Negative			
(159) Grifols	RV	>>>	31	34	Negative			
(172) Immucor	RV	>>>	13	14	Negative			
(173) Sanguin	RV	>>>	3	3,3	Negative			
(174) IVT Imuno	RV	>>>	4	4,4	Negative			
(203) ANTITOXIN	RV	>>>	1	1,1	Negative			
(721) Antigen k			45			45	45	100
Samples E1 and S1			45			45	45	100
(14) Bio-Rad	RV	>>>	14	31	Positive			
(64) Exbio Olomouc	RV	>>>	3	6,7	Positive			
(159) Grifols	RV	>>>	5	11	Positive			
(172) Immucor	RV	>>>	7	16	Positive			
(173) Sanguin	RV	>>>	10	22	Positive			
(174) IVT Imuno	RV	>>>	1	2,2	Positive			
(203) ANTITOXIN	RV	>>>	4	8,9	Positive			
(999) another manufacturer	RV	>>>	1	2,2	Positive			
Samples E2 and S2			45			45	45	100
(14) Bio-Rad	RV	>>>	14	31	Positive			
(64) Exbio Olomouc	RV	>>>	3	6,7	Positive			
(159) Grifols	RV	>>>	5	11	Positive			
(172) Immucor	RV	>>>	7	16	Positive			
(173) Sanguin	RV	>>>	10	22	Positive			
(174) IVT Imuno	RV	>>>	1	2,2	Positive			
(203) ANTITOXIN	RV	>>>	4	8,9	Positive			
(999) another manufacturer	RV	>>>	1	2,2	Positive			
(738) Antigen Kp^a			15			15	15	100
Samples E1 and S1			15			15	15	100
(14) Bio-Rad	RV	>>>	5	33	Negative			
(64) Exbio Olomouc	RV	>>>	1	6,7	Negative			
(159) Grifols	RV	>>>	4	27	Negative			
(172) Immucor	RV	>>>	3	20	Negative			
(173) Sanguin	RV	>>>	2	13	Negative			
Samples E2 and S2			15			15	15	100
(14) Bio-Rad	RV	>>>	5	33	Negative			
(64) Exbio Olomouc	RV	>>>	1	6,7	Negative			
(159) Grifols	RV	>>>	4	27	Negative			
(172) Immucor	RV	>>>	3	20	Negative			
(173) Sanguin	RV	>>>	2	13	Negative			

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(739) Antigen Kp^b		8			8	8	100	
Samples E1 and S1		8			8	8	100	
(14) Bio-Rad	RV >>>	3	38	Positive				
(64) Exbio Olomouc	RV >>>	1	13	Positive				
(159) Grifols	RV >>>	2	25	Positive				
(172) Immucor	RV >>>	2	25	Positive				
Samples E2 and S2		8			8	8	100	
(14) Bio-Rad	RV >>>	3	38	Positive				
(64) Exbio Olomouc	RV >>>	1	13	Positive				
(159) Grifols	RV >>>	2	25	Positive				
(172) Immucor	RV >>>	2	25	Positive				
(729) Antigen Jk^a		40			40	40	100	
Samples E1 and S1		40			40	40	100	
(14) Bio-Rad	RV >>>	14	35	Positive				
(52) Dynex	RV >>>	1	2,5	Positive				
(64) Exbio Olomouc	RV >>>	1	2,5	Positive				
(159) Grifols	RV >>>	8	20	Positive				
(172) Immucor	RV >>>	8	20	Positive				
(173) Sanguin	RV >>>	6	15	Positive				
(203) ANTITOXIN	RV >>>	2	5	Positive				
Samples E2 and S2		40			40	40	100	
(14) Bio-Rad	RV >>>	14	35	Positive				
(52) Dynex	RV >>>	1	2,5	Positive				
(64) Exbio Olomouc	RV >>>	1	2,5	Positive				
(159) Grifols	RV >>>	8	20	Positive				
(172) Immucor	RV >>>	8	20	Positive				
(173) Sanguin	RV >>>	6	15	Positive				
(203) ANTITOXIN	RV >>>	2	5	Positive				
(730) Antigen Jk^b		40			40	38	95	
Samples E1 and S1		40			40	38	95	
(14) Bio-Rad		1	2,5	Negative				
	RV >>>	13	33	Positive				
(50) Merck	RV >>>	1	2,5	Positive				
(52) Dynex	RV >>>	1	2,5	Positive				
(64) Exbio Olomouc	RV >>>	1	2,5	Positive				
(159) Grifols		1	2,5	Negative				
	RV >>>	7	18	Positive				
(172) Immucor	RV >>>	8	20	Positive				
(173) Sanguin	RV >>>	6	15	Positive				
(203) ANTITOXIN	RV >>>	1	2,5	Positive				
Samples E2 and S2		40			40	40	100	
(14) Bio-Rad	RV >>>	14	35	Negative				
(50) Merck	RV >>>	1	2,5	Negative				
(52) Dynex	RV >>>	1	2,5	Negative				
(64) Exbio Olomouc	RV >>>	1	2,5	Negative				
(159) Grifols	RV >>>	8	20	Negative				
(172) Immucor	RV >>>	8	20	Negative				
(173) Sanguin	RV >>>	6	15	Negative				
(203) ANTITOXIN	RV >>>	1	2,5	Negative				
(727) Antigen Fy^a		41			41	41	100	
Samples E1 and S1		41			41	41	100	
(14) Bio-Rad	RV >>>	16	39	Positive				
(64) Exbio Olomouc	RV >>>	2	4,9	Positive				
(159) Grifols	RV >>>	8	20	Positive				
(172) Immucor	RV >>>	7	17	Positive				
(173) Sanguin	RV >>>	6	15	Positive				
(203) ANTITOXIN	RV >>>	2	4,9	Positive				
Samples E2 and S2		41			41	41	100	
(14) Bio-Rad	RV >>>	16	39	Negative				
(64) Exbio Olomouc	RV >>>	2	4,9	Negative				
(159) Grifols	RV >>>	8	20	Negative				
(172) Immucor	RV >>>	7	17	Negative				
(173) Sanguin	RV >>>	6	15	Negative				
(203) ANTITOXIN	RV >>>	2	4,9	Negative				
(728) Antigen Fy^b		41			41	40	98	
Samples E1 and S1		41			41	41	100	
(14) Bio-Rad	RV >>>	16	39	Positive				
(64) Exbio Olomouc	RV >>>	2	4,9	Positive				
(159) Grifols	RV >>>	8	20	Positive				

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(172) Immucor	RV >>>	6	15	Positive				
(173) Sanguin	RV >>>	6	15	Positive				
(203) ANTITOXIN	RV >>>	3	7,3	Positive				
Samples E2 and S2		41			41	40	98	
(14) Bio-Rad	RV >>>	16	39	Positive				
(64) Exbio Olomouc	RV >>>	2	4,9	Positive				
(159) Grifols	RV >>>	8	20	Positive				
(172) Immucor		1	2,4	Negative				
	RV >>>	5	12	Positive				
(173) Sanguin	RV >>>	6	15	Positive				
(203) ANTITOXIN	RV >>>	3	7,3	Positive				
(722) Antigen M		39			39	39	100	
Samples E1 and S1		39			39	39	100	
(14) Bio-Rad	RV >>>	11	28	Positive				
(52) Dynex	RV >>>	1	2,6	Positive				
(64) Exbio Olomouc	RV >>>	2	5,1	Positive				
(159) Grifols	RV >>>	6	15	Positive				
(172) Immucor	RV >>>	12	31	Positive				
(173) Sanguin	RV >>>	3	7,7	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	2,6	Positive				
(203) ANTITOXIN	RV >>>	3	7,7	Positive				
Samples E2 and S2		39			39	39	100	
(14) Bio-Rad	RV >>>	11	28	Negative				
(52) Dynex	RV >>>	1	2,6	Negative				
(64) Exbio Olomouc	RV >>>	2	5,1	Negative				
(159) Grifols	RV >>>	6	15	Negative				
(172) Immucor	RV >>>	12	31	Negative				
(173) Sanguin	RV >>>	3	7,7	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	2,6	Negative				
(203) ANTITOXIN	RV >>>	3	7,7	Negative				
(723) Antigen N		37			37	35	95	
Samples E1 and S1		37			37	37	100	
(14) Bio-Rad	RV >>>	12	32	Negative				
(52) Dynex	RV >>>	1	2,7	Negative				
(64) Exbio Olomouc	RV >>>	1	2,7	Negative				
(159) Grifols	RV >>>	6	16	Negative				
(172) Immucor	RV >>>	10	27	Negative				
(173) Sanguin	RV >>>	3	8,1	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	2,7	Negative				
(203) ANTITOXIN	RV >>>	3	8,1	Negative				
Samples E2 and S2		37			37	35	95	
(14) Bio-Rad	RV >>>	12	32	Positive				
(52) Dynex	RV >>>	1	2,7	Positive				
(64) Exbio Olomouc	RV >>>	1	2,7	Positive				
(159) Grifols	RV >>>	6	16	Positive				
(172) Immucor		2	5,4	Negative				
	RV >>>	8	22	Positive				
(173) Sanguin	RV >>>	3	8,1	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	2,7	Positive				
(203) ANTITOXIN	RV >>>	3	8,1	Positive				
(724) Antigen S		39			39	38	97	
Samples E1 and S1		39			39	39	100	
(14) Bio-Rad	RV >>>	13	33	Positive				
(50) Merck	RV >>>	1	2,6	Positive				
(52) Dynex	RV >>>	2	5,1	Positive				
(64) Exbio Olomouc	RV >>>	2	5,1	Positive				
(159) Grifols	RV >>>	7	18	Positive				
(172) Immucor	RV >>>	8	21	Positive				
(173) Sanguin	RV >>>	3	7,7	Positive				
(174) IVT Imuno	RV >>>	1	2,6	Positive				
(203) ANTITOXIN	RV >>>	2	5,1	Positive				
Samples E2 and S2		39			39	38	97	
(14) Bio-Rad	RV >>>	13	33	Negative				
(50) Merck	RV >>>	1	2,6	Negative				
(52) Dynex	RV >>>	2	5,1	Negative				
(64) Exbio Olomouc	RV >>>	2	5,1	Negative				
(159) Grifols	RV >>>	6	15	Negative				
		1	2,6	Positive				
(172) Immucor	RV >>>	8	21	Negative				

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Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(173) Sanguin	RV >>>	3	7,7	Negative				
(174) IVT Imuno	RV >>>	1	2,6	Negative				
(203) ANTITOXIN	RV >>>	2	5,1	Negative				
(725) Antigen s		40			40	39	98	
Samples E1 and S1		40			40	40	100	
(14) Bio-Rad	RV >>>	13	33	Negative				
(52) Dynex	RV >>>	1	2,5	Negative				
(64) Exbio Olomouc	RV >>>	2	5	Negative				
(159) Grifols	RV >>>	7	18	Negative				
(172) Immucor	RV >>>	7	18	Negative				
(173) Sanguin	RV >>>	6	15	Negative				
(174) IVT Imuno	RV >>>	1	2,5	Negative				
(203) ANTITOXIN	RV >>>	3	7,5	Negative				
Samples E2 and S2		40			40	39	98	
(14) Bio-Rad	RV >>>	13	33	Positive				
(52) Dynex	RV >>>	1	2,5	Positive				
(64) Exbio Olomouc	RV >>>	2	5	Positive				
(159) Grifols	RV >>>	7	18	Positive				
(172) Immucor	RV >>>	1	2,5	Negative				
	RV >>>	6	15	Positive				
(173) Sanguin	RV >>>	6	15	Positive				
(174) IVT Imuno	RV >>>	1	2,5	Positive				
(203) ANTITOXIN	RV >>>	3	7,5	Positive				
(733) Antigen Le^a		31			31	31	100	
Samples E1 and S1		31			31	31	100	
(14) Bio-Rad	RV >>>	14	45	Negative				
(159) Grifols	RV >>>	6	19	Negative				
(172) Immucor	RV >>>	6	19	Negative				
(173) Sanguin	RV >>>	3	9,7	Negative				
(203) ANTITOXIN	RV >>>	2	6,5	Negative				
Samples E2 and S2		31			31	31	100	
(14) Bio-Rad	RV >>>	14	45	Positive				
(159) Grifols	RV >>>	6	19	Positive				
(172) Immucor	RV >>>	6	19	Positive				
(173) Sanguin	RV >>>	3	9,7	Positive				
(203) ANTITOXIN	RV >>>	2	6,5	Positive				
(734) Antigen Le^b		30			30	29	97	
Samples E1 and S1		30			30	29	97	
(14) Bio-Rad	RV >>>	13	43	Positive				
(50) Merck	RV >>>	1	3,3	Positive				
(159) Grifols	RV >>>	1	3,3	Negative				
	RV >>>	4	13	Positive				
(172) Immucor	RV >>>	6	20	Positive				
(173) Sanguin	RV >>>	3	10	Positive				
(203) ANTITOXIN	RV >>>	2	6,7	Positive				
Samples E2 and S2		30			30	30	100	
(14) Bio-Rad	RV >>>	13	43	Negative				
(50) Merck	RV >>>	1	3,3	Negative				
(159) Grifols	RV >>>	5	17	Negative				
(172) Immucor	RV >>>	6	20	Negative				
(173) Sanguin	RV >>>	3	10	Negative				
(203) ANTITOXIN	RV >>>	2	6,7	Negative				
(731) Antigen Lu^a		25			25	25	100	
Samples E1 and S1		25			25	25	100	
(14) Bio-Rad	RV >>>	13	52	Negative				
(80) DiaMed	RV >>>	1	4	Negative				
(159) Grifols	RV >>>	8	32	Negative				
(172) Immucor	RV >>>	1	4	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	4	Negative				
(203) ANTITOXIN	RV >>>	1	4	Negative				
Samples E2 and S2		25			25	25	100	
(14) Bio-Rad	RV >>>	13	52	Negative				
(80) DiaMed	RV >>>	1	4	Negative				
(159) Grifols	RV >>>	8	32	Negative				
(172) Immucor	RV >>>	1	4	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	4	Negative				
(203) ANTITOXIN	RV >>>	1	4	Negative				

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Deadline: 31.5.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(732) Antigen Lu^b		23			23	23	100	
Samples E1 and S1		23			23	23	100	
(14) Bio-Rad	RV >>>	11	48	Positive				
(80) DiaMed	RV >>>	2	8,7	Positive				
(159) Grifols	RV >>>	6	26	Positive				
(172) Immucor	RV >>>	1	4,3	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	4,3	Positive				
(203) ANTITOXIN	RV >>>	1	4,3	Positive				
(999) another manufacturer	RV >>>	1	4,3	Positive				
Samples E2 and S2		23			23	23	100	
(14) Bio-Rad	RV >>>	11	48	Positive				
(80) DiaMed	RV >>>	2	8,7	Positive				
(159) Grifols	RV >>>	6	26	Positive				
(172) Immucor	RV >>>	1	4,3	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	4,3	Positive				
(203) ANTITOXIN	RV >>>	1	4,3	Positive				
(999) another manufacturer	RV >>>	1	4,3	Positive				
(726) Antigen P1		27			27	25	93	
Samples E1 and S1		27			27	27	100	
(14) Bio-Rad	RV >>>	9	33	Positive				
(64) Exbio Olomouc	RV >>>	1	3,7	Positive				
(159) Grifols	RV >>>	2	7,4	Positive				
(172) Immucor	RV >>>	1	3,7	Negative				
	RV >>>	6	22	Positive				
(173) Sanguin	RV >>>	6	22	Positive				
(174) IVT Imuno	RV >>>	1	3,7	Positive				
(203) ANTITOXIN	RV >>>	1	3,7	Positive				
Samples E2 and S2		27			27	25	93	
(14) Bio-Rad	RV >>>	9	33	Positive				
(64) Exbio Olomouc	RV >>>	1	3,7	Positive				
(159) Grifols	RV >>>	1	3,7	Negative				
	RV >>>	1	3,7	Positive				
(172) Immucor	RV >>>	1	3,7	Negative				
	RV >>>	6	22	Positive				
(173) Sanguin	RV >>>	6	22	Positive				
(174) IVT Imuno	RV >>>	1	3,7	Positive				
(203) ANTITOXIN	RV >>>	1	3,7	Positive				
(740) Antigen Wr^a		8			8	8	100	
Samples E1 and S1		8			8	8	100	
(64) Exbio Olomouc	RV >>>	1	13	Negative				
(159) Grifols	RV >>>	2	25	Negative				
(172) Immucor	RV >>>	2	25	Negative				
(173) Sanguin	RV >>>	3	38	Negative				
Samples E2 and S2		8			8	8	100	
(64) Exbio Olomouc	RV >>>	1	13	Negative				
(159) Grifols	RV >>>	2	25	Negative				
(172) Immucor	RV >>>	2	25	Negative				
(173) Sanguin	RV >>>	3	38	Negative				
(737) Direct Coombs (antiglobulin) test		129			129	129	100	
Samples E1 and S1		129			129	129	100	
(14) Bio-Rad	RV >>>	59	46	Negative				
(40) Ortho Clinical Diagnostics	RV >>>	1	0,8	Negative				
(64) Exbio Olomouc	RV >>>	2	1,6	Negative				
(80) DiaMed	RV >>>	19	15	Negative				
(159) Grifols	RV >>>	46	36	Negative				
(172) Immucor	RV >>>	1	0,8	Negative				
(174) IVT Imuno	RV >>>	1	0,8	Negative				
Samples E2 and S2		129			129	129	100	
(14) Bio-Rad	RV >>>	59	46	Negative				
(40) Ortho Clinical Diagnostics	RV >>>	1	0,8	Negative				
(64) Exbio Olomouc	RV >>>	2	1,6	Negative				
(80) DiaMed	RV >>>	19	15	Negative				
(159) Grifols	RV >>>	46	36	Negative				
(172) Immucor	RV >>>	1	0,8	Negative				
(174) IVT Imuno	RV >>>	1	0,8	Negative				
(741) Antibody screening (IAT, blood donor)		82			82	82	100	
Samples E1 and S1		82			82	82	100	
(6) APR	RV >>>	4	4,9	Positive				
(14) Bio-Rad	RV >>>	31	38	Positive				

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Deadline: 31.5.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(64) Exbio Olomouc	RV	>>>	1	1,2	Positive			
(80) DiaMed	RV	>>>	9	11	Positive			
(159) Grifols	RV	>>>	23	28	Positive			
(172) Immucor	RV	>>>	14	17	Positive			
Samples E2 and S2			82			82	82	100
(6) APR	RV	>>>	4	4,9	Positive			
(14) Bio-Rad	RV	>>>	31	38	Positive			
(64) Exbio Olomouc	RV	>>>	1	1,2	Positive			
(80) DiaMed	RV	>>>	9	11	Positive			
(159) Grifols	RV	>>>	23	28	Positive			
(172) Immucor	RV	>>>	14	17	Positive			
(743) Antibody screening (IAT, recipient)			143			143	143	100
Samples E1 and S1			143			143	143	100
(6) APR	RV	>>>	1	0,7	Positive			
(14) Bio-Rad	RV	>>>	65	45	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,7	Positive			
(80) DiaMed	RV	>>>	21	15	Positive			
(159) Grifols	RV	>>>	48	34	Positive			
(172) Immucor	RV	>>>	7	4,9	Positive			
Samples E2 and S2			143			143	143	100
(6) APR	RV	>>>	1	0,7	Positive			
(14) Bio-Rad	RV	>>>	65	45	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,7	Positive			
(80) DiaMed	RV	>>>	21	15	Positive			
(159) Grifols	RV	>>>	48	34	Positive			
(172) Immucor	RV	>>>	7	4,9	Positive			
(745) Antibody screening (IAT, pregnant)			117			117	117	100
Samples E1 and S1			117			117	117	100
(6) APR	RV	>>>	1	0,9	Positive			
(14) Bio-Rad	RV	>>>	51	44	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,9	Positive			
(64) Exbio Olomouc	RV	>>>	1	0,9	Positive			
(80) DiaMed	RV	>>>	16	14	Positive			
(159) Grifols	RV	>>>	41	35	Positive			
(172) Immucor	RV	>>>	6	5,1	Positive			
Samples E2 and S2			117			117	117	100
(6) APR	RV	>>>	1	0,9	Positive			
(14) Bio-Rad	RV	>>>	51	44	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,9	Positive			
(64) Exbio Olomouc	RV	>>>	1	0,9	Positive			
(80) DiaMed	RV	>>>	16	14	Positive			
(159) Grifols	RV	>>>	41	35	Positive			
(172) Immucor	RV	>>>	6	5,1	Positive			
(747) Antibody screening (enzyme test)			107			107	105	98
Samples E1 and S1			107			107	106	99
(14) Bio-Rad	RV	>>>	32	30	Negative			
	RV	>>>	18	17	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,9	Negative			
(80) DiaMed	RV	>>>	13	12	Negative			
	RV	>>>	3	2,8	Positive			
(159) Grifols			1	0,9	Not specified			
	RV	>>>	36	34	Negative			
	RV	>>>	2	1,9	Positive			
(172) Immucor	RV	>>>	1	0,9	Negative			
Samples E2 and S2			107			107	106	99
(14) Bio-Rad	RV	>>>	50	47	Negative			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,9	Negative			
(80) DiaMed	RV	>>>	16	15	Negative			
(159) Grifols	RV	>>>	38	36	Negative			
			1	0,9	Positive			
(172) Immucor	RV	>>>	1	0,9	Negative			
(750) Antibody identification			54			54	54	100
Samples E1 and S1			54			54	54	100
(0) not specified	RV	>>>	54	100	anti-s			
Samples E2 and S2			54			54	54	100
(0) not specified	RV	>>>	54	100	anti-Fya			
(752) Antibody titre, Sample 1: 1st antibody			36			0		
Samples E1 and S1			36			0		
(0) not specified		±	4	11	titre 4			

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Deadline: 31.5.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
	±	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	
(0) not specified	±	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			
Set 3							
(761) Crossmatch (segment K1)		129				129	129 100
Sample S1		129				129	129 100
(0) not specified	RV >>>	129	100	Negative test			
Sample S2		129				129	129 100
(0) not specified	RV >>>	129	100	Positive test			
(762) Serve transfusion product? (segment K1)		129				0	
(transfusion in non-emergency mode)							
Sample S1		129				0	
(0) not specified	±	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	
(0) not specified	±	129	100	Impossible, risk of haemolysis			
(764) Crossmatch (segment K2)		129				129	129 100
Sample S1		129				129	129 100
(0) not specified	RV >>>	129	100	Positive test			
Sample S2		129				129	129 100
(0) not specified	RV >>>	129	100	Negative test			
(765) Serve transfusion product? (segment K2)		129				0	
(transfusion in non-emergency mode)							
Sample S1		129				0	
(0) not specified	±	129	100	Impossible, risk of haemolysis			
Sample S2		129				0	
(0) not specified	±	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			