

EQA round: IH3/24 - Blood Group Serology

Deadline: 27.9.2024

Setup: groups - R (manufacturer of kit)

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
(14) Bio-Rad	RV >>>	58	35	Blood group: B			
(40) Ortho Clinical Diagnostics	RV >>>	1	0,6	Blood group: B			
(52) Dynex	RV >>>	1	0,6	Blood group: B			
(64) Exbio Olomouc	RV >>>	5	3	Blood group: B			
(80) DiaMed	RV >>>	7	4,3	Blood group: B			
(159) Grifols	RV >>>	60	37	Blood group: B			
(171) Diagast	RV >>>	2	1,2	Blood group: B			
(172) Immucor	RV >>>	18	11	Blood group: B			
(173) Sanguin	RV >>>	4	2,4	Blood group: B			
(174) IVT Imuno	RV >>>	3	1,8	Blood group: B			
(183) Immunodiagnostic Systems	RV >>>	1	0,6	Blood group: B			
(999) another manufacturer	RV >>>	4	2,4	Blood group: B			
Samples E2 and S2		164			164	164	100
(14) Bio-Rad	RV >>>	58	35	Blood group: A			
(40) Ortho Clinical Diagnostics	RV >>>	1	0,6	Blood group: A			
(52) Dynex	RV >>>	1	0,6	Blood group: A			
(64) Exbio Olomouc	RV >>>	5	3	Blood group: A			
(80) DiaMed	RV >>>	7	4,3	Blood group: A			
(159) Grifols	RV >>>	60	37	Blood group: A			
(171) Diagast	RV >>>	2	1,2	Blood group: A			
(172) Immucor	RV >>>	18	11	Blood group: A			
(173) Sanguin	RV >>>	4	2,4	Blood group: A			
(174) IVT Imuno	RV >>>	3	1,8	Blood group: A			
(183) Immunodiagnostic Systems	RV >>>	1	0,6	Blood group: A			
(999) another manufacturer	RV >>>	4	2,4	Blood group: A			
(703) A subgroup		39			39	39	100
Samples E1 and S1		39			39	39	100
(0) not specified	RV >>>	39	100	Not specified			
Samples E2 and S2		39			39	39	100
(0) not specified	RV >>>	39	100	A subgroup A1			
(705) Rh D antigen (blood-donor)		95			95	93	98
Samples E1 and S1		95			95	93	98
(0) not specified		1	1,1	Not specified			
	RV >>>	1	1,1	Negative (RhD-)			
(14) Bio-Rad	RV >>>	31	33	Negative (RhD-)			
(52) Dynex	RV >>>	1	1,1	Negative (RhD-)			
(64) Exbio Olomouc	RV >>>	1	1,1	Negative (RhD-)			
(80) DiaMed	RV >>>	3	3,2	Negative (RhD-)			
(159) Grifols	RV >>>	36	38	Negative (RhD-)			
(171) Diagast	RV >>>	1	1,1	Negative (RhD-)			
(172) Immucor	RV >>>	14	15	Negative (RhD-)			
		1	1,1	w/v (RhD weak/variant)			
(173) Sanguin	RV >>>	1	1,1	Negative (RhD-)			
(174) IVT Imuno	RV >>>	1	1,1	Negative (RhD-)			
(183) Immunodiagnostic Systems	RV >>>	1	1,1	Negative (RhD-)			
(999) another manufacturer	RV >>>	2	2,1	Negative (RhD-)			
Samples E2 and S2		95			95	95	100
(0) not specified	RV >>>	2	2,1	Positive (RhD+)			
(14) Bio-Rad	RV >>>	31	33	Positive (RhD+)			
(52) Dynex	RV >>>	1	1,1	Positive (RhD+)			
(64) Exbio Olomouc	RV >>>	1	1,1	Positive (RhD+)			
(80) DiaMed	RV >>>	3	3,2	Positive (RhD+)			
(159) Grifols	RV >>>	36	38	Positive (RhD+)			
(171) Diagast	RV >>>	1	1,1	Positive (RhD+)			
(172) Immucor	RV >>>	15	16	Positive (RhD+)			
(173) Sanguin	RV >>>	1	1,1	Positive (RhD+)			
(174) IVT Imuno	RV >>>	1	1,1	Positive (RhD+)			
(183) Immunodiagnostic Systems	RV >>>	1	1,1	Positive (RhD+)			
(999) another manufacturer	RV >>>	2	2,1	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)		153			153	152	99	
Samples E1 and S1		153			153	152	99	
(14) Bio-Rad	RV >>>	55	36	Negative (RhD-)				
(40) Ortho Clinical Diagnostics	RV >>>	1	0,7	Negative (RhD-)				
(52) Dynex	RV >>>	1	0,7	Negative (RhD-)				
(64) Exbio Olomouc	RV >>>	4	2,6	Negative (RhD-)				
(80) DiaMed	RV >>>	6	3,9	Negative (RhD-)				
(159) Grifols	RV >>>	57	37	Negative (RhD-)				
(170) Biotest	RV >>>	1	0,7	Negative (RhD-)				
(171) Diagast	RV >>>	1	0,7	Negative (RhD-)				
(172) Immucor	RV >>>	15	9,8	Negative (RhD-)				
		1	0,7	w/v (RhD weak/variant)				
(173) Sanguin	RV >>>	4	2,6	Negative (RhD-)				
(174) IVT Imuno	RV >>>	2	1,3	Negative (RhD-)				
(183) Immunodiagnostic Systems	RV >>>	1	0,7	Negative (RhD-)				
(203) ANTITOXIN	RV >>>	1	0,7	Negative (RhD-)				
(999) another manufacturer	RV >>>	3	2	Negative (RhD-)				
Samples E2 and S2		153			153	153	100	
(14) Bio-Rad	RV >>>	55	36	Positive (RhD+)				
(40) Ortho Clinical Diagnostics	RV >>>	1	0,7	Positive (RhD+)				
(52) Dynex	RV >>>	1	0,7	Positive (RhD+)				
(64) Exbio Olomouc	RV >>>	4	2,6	Positive (RhD+)				
(80) DiaMed	RV >>>	6	3,9	Positive (RhD+)				
(159) Grifols	RV >>>	57	37	Positive (RhD+)				
(170) Biotest	RV >>>	1	0,7	Positive (RhD+)				
(171) Diagast	RV >>>	1	0,7	Positive (RhD+)				
(172) Immucor	RV >>>	16	10	Positive (RhD+)				
(173) Sanguin	RV >>>	4	2,6	Positive (RhD+)				
(174) IVT Imuno	RV >>>	2	1,3	Positive (RhD+)				
(183) Immunodiagnostic Systems	RV >>>	1	0,7	Positive (RhD+)				
(203) ANTITOXIN	RV >>>	1	0,7	Positive (RhD+)				
(999) another manufacturer	RV >>>	3	2	Positive (RhD+)				
(715) Antigen C		85			85	84	99	
Samples E1 and S1		85			85	85	100	
(14) Bio-Rad	RV >>>	34	40	Negative				
(50) Merck	RV >>>	1	1,2	Negative				
(80) DiaMed	RV >>>	4	4,7	Negative				
(159) Grifols	RV >>>	35	41	Negative				
(171) Diagast	RV >>>	2	2,4	Negative				
(172) Immucor	RV >>>	6	7,1	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	1,2	Negative				
(203) ANTITOXIN	RV >>>	1	1,2	Negative				
(999) another manufacturer	RV >>>	1	1,2	Negative				
Samples E2 and S2		85			85	84	99	
(14) Bio-Rad	RV >>>	34	40	Positive				
(50) Merck	RV >>>	1	1,2	Negative				
(80) DiaMed	RV >>>	4	4,7	Positive				
(159) Grifols	RV >>>	35	41	Positive				
(171) Diagast	RV >>>	2	2,4	Positive				
(172) Immucor	RV >>>	6	7,1	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	1,2	Positive				
(203) ANTITOXIN	RV >>>	1	1,2	Positive				
(999) another manufacturer	RV >>>	1	1,2	Positive				
(716) Antigen c		85			85	84	99	
Samples E1 and S1		85			85	85	100	
(14) Bio-Rad	RV >>>	34	40	Positive				
(50) Merck	RV >>>	1	1,2	Positive				
(80) DiaMed	RV >>>	4	4,7	Positive				
(159) Grifols	RV >>>	36	42	Positive				
(171) Diagast	RV >>>	1	1,2	Positive				
(172) Immucor	RV >>>	6	7,1	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	1,2	Positive				
(203) ANTITOXIN	RV >>>	1	1,2	Positive				
(999) another manufacturer	RV >>>	1	1,2	Positive				
Samples E2 and S2		85			85	84	99	
(14) Bio-Rad	RV >>>	34	40	Negative				
(50) Merck	RV >>>	1	1,2	Positive				
(80) DiaMed	RV >>>	4	4,7	Negative				

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(159) Grifols	RV >>>	36	42	Negative				
(171) Diagast	RV >>>	1	1,2	Negative				
(172) Immucor	RV >>>	6	7,1	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	1,2	Negative				
(203) ANTITOXIN	RV >>>	1	1,2	Negative				
(999) another manufacturer	RV >>>	1	1,2	Negative				
(718) Antigen E		86			86	86	100	
Samples E1 and S1		86			86	86	100	
(14) Bio-Rad	RV >>>	34	40	Negative				
(50) Merck	RV >>>	1	1,2	Negative				
(80) DiaMed	RV >>>	4	4,7	Negative				
(159) Grifols	RV >>>	36	42	Negative				
(171) Diagast	RV >>>	2	2,3	Negative				
(172) Immucor	RV >>>	6	7	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	1,2	Negative				
(203) ANTITOXIN	RV >>>	1	1,2	Negative				
(999) another manufacturer	RV >>>	1	1,2	Negative				
Samples E2 and S2		86			86	86	100	
(14) Bio-Rad	RV >>>	34	40	Negative				
(50) Merck	RV >>>	1	1,2	Negative				
(80) DiaMed	RV >>>	4	4,7	Negative				
(159) Grifols	RV >>>	36	42	Negative				
(171) Diagast	RV >>>	2	2,3	Negative				
(172) Immucor	RV >>>	6	7	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	1,2	Negative				
(203) ANTITOXIN	RV >>>	1	1,2	Negative				
(999) another manufacturer	RV >>>	1	1,2	Negative				
(719) Antigen e		85			85	85	100	
Samples E1 and S1		85			85	85	100	
(14) Bio-Rad	RV >>>	33	39	Positive				
(17) Biogema	RV >>>	1	1,2	Positive				
(50) Merck	RV >>>	1	1,2	Positive				
(80) DiaMed	RV >>>	4	4,7	Positive				
(159) Grifols	RV >>>	35	41	Positive				
(171) Diagast	RV >>>	2	2,4	Positive				
(172) Immucor	RV >>>	6	7,1	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	1,2	Positive				
(203) ANTITOXIN	RV >>>	1	1,2	Positive				
(999) another manufacturer	RV >>>	1	1,2	Positive				
Samples E2 and S2		85			85	85	100	
(14) Bio-Rad	RV >>>	33	39	Positive				
(17) Biogema	RV >>>	1	1,2	Positive				
(50) Merck	RV >>>	1	1,2	Positive				
(80) DiaMed	RV >>>	4	4,7	Positive				
(159) Grifols	RV >>>	35	41	Positive				
(171) Diagast	RV >>>	2	2,4	Positive				
(172) Immucor	RV >>>	6	7,1	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	1,2	Positive				
(203) ANTITOXIN	RV >>>	1	1,2	Positive				
(999) another manufacturer	RV >>>	1	1,2	Positive				
(717) Antigen C^w		73			73	73	100	
Samples E1 and S1		73			73	73	100	
(14) Bio-Rad	RV >>>	26	36	Negative				
(50) Merck	RV >>>	1	1,4	Negative				
(80) DiaMed	RV >>>	1	1,4	Negative				
(159) Grifols	RV >>>	37	51	Negative				
(170) Biotest	RV >>>	1	1,4	Negative				
(172) Immucor	RV >>>	5	6,8	Negative				
(173) Sanguin	RV >>>	1	1,4	Negative				
(999) another manufacturer	RV >>>	1	1,4	Negative				
Samples E2 and S2		73			73	73	100	
(14) Bio-Rad	RV >>>	26	36	Negative				
(50) Merck	RV >>>	1	1,4	Negative				
(80) DiaMed	RV >>>	1	1,4	Negative				
(159) Grifols	RV >>>	37	51	Negative				
(170) Biotest	RV >>>	1	1,4	Negative				
(172) Immucor	RV >>>	5	6,8	Negative				
(173) Sanguin	RV >>>	1	1,4	Negative				
(999) another manufacturer	RV >>>	1	1,4	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} [%]	
(720) Antigen K		92			92	92	100	
Samples E1 and S1		92			92	92	100	
(14) Bio-Rad	RV >>>	34	37	Negative				
(50) Merck	RV >>>	1	1,1	Negative				
(80) DiaMed	RV >>>	4	4,3	Negative				
(159) Grifols	RV >>>	43	47	Negative				
(171) Diagast	RV >>>	1	1,1	Negative				
(172) Immucor	RV >>>	6	6,5	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	1,1	Negative				
(203) ANTITOXIN	RV >>>	1	1,1	Negative				
(999) another manufacturer	RV >>>	1	1,1	Negative				
Samples E2 and S2		92			92	92	100	
(14) Bio-Rad	RV >>>	34	37	Negative				
(50) Merck	RV >>>	1	1,1	Negative				
(80) DiaMed	RV >>>	4	4,3	Negative				
(159) Grifols	RV >>>	43	47	Negative				
(171) Diagast	RV >>>	1	1,1	Negative				
(172) Immucor	RV >>>	6	6,5	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	1,1	Negative				
(203) ANTITOXIN	RV >>>	1	1,1	Negative				
(999) another manufacturer	RV >>>	1	1,1	Negative				
(721) Antigen k		40			40	40	100	
Samples E1 and S1		40			40	40	100	
(14) Bio-Rad	RV >>>	9	23	Positive				
(64) Exbio Olomouc	RV >>>	1	2,5	Positive				
(80) DiaMed	RV >>>	1	2,5	Positive				
(159) Grifols	RV >>>	13	33	Positive				
(172) Immucor	RV >>>	7	18	Positive				
(173) Sanguin	RV >>>	8	20	Positive				
(999) another manufacturer	RV >>>	1	2,5	Positive				
Samples E2 and S2		40			40	40	100	
(14) Bio-Rad	RV >>>	9	23	Positive				
(64) Exbio Olomouc	RV >>>	1	2,5	Positive				
(80) DiaMed	RV >>>	1	2,5	Positive				
(159) Grifols	RV >>>	13	33	Positive				
(172) Immucor	RV >>>	7	18	Positive				
(173) Sanguin	RV >>>	8	20	Positive				
(999) another manufacturer	RV >>>	1	2,5	Positive				
(738) Antigen Kp^a		20			20	20	100	
Samples E1 and S1		20			20	20	100	
(14) Bio-Rad	RV >>>	7	35	Negative				
(159) Grifols	RV >>>	10	50	Negative				
(172) Immucor	RV >>>	2	10	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	5	Negative				
Samples E2 and S2		20			20	20	100	
(14) Bio-Rad	RV >>>	7	35	Negative				
(159) Grifols	RV >>>	10	50	Negative				
(172) Immucor	RV >>>	2	10	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	5	Negative				
(739) Antigen Kp^b		12			12	12	100	
Samples E1 and S1		12			12	12	100	
(14) Bio-Rad	RV >>>	3	25	Positive				
(159) Grifols	RV >>>	6	50	Positive				
(172) Immucor	RV >>>	2	17	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	8,3	Positive				
Samples E2 and S2		12			12	12	100	
(14) Bio-Rad	RV >>>	3	25	Positive				
(159) Grifols	RV >>>	6	50	Positive				
(172) Immucor	RV >>>	2	17	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	8,3	Positive				
(729) Antigen Jk^a		43			43	43	100	
Samples E1 and S1		43			43	43	100	
(14) Bio-Rad	RV >>>	12	28	Positive				
(64) Exbio Olomouc	RV >>>	2	4,7	Positive				
(80) DiaMed	RV >>>	1	2,3	Positive				
(159) Grifols	RV >>>	18	42	Positive				
(172) Immucor	RV >>>	5	12	Positive				
(173) Sanguin	RV >>>	4	9,3	Positive				
(203) ANTITOXIN	RV >>>	1	2,3	Positive				

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Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
Samples E2 and S2		43				43	43	100
(14) Bio-Rad	RV >>>	12	28	Positive				
(64) Exbio Olomouc	RV >>>	2	4,7	Positive				
(80) DiaMed	RV >>>	1	2,3	Positive				
(159) Grifols	RV >>>	18	42	Positive				
(172) Immucor	RV >>>	5	12	Positive				
(173) Sanguin	RV >>>	4	9,3	Positive				
(203) ANTITOXIN	RV >>>	1	2,3	Positive				
(730) Antigen Jk^b		43				43	43	100
Samples E1 and S1		43				43	43	100
(14) Bio-Rad	RV >>>	12	28	Negative				
(64) Exbio Olomouc	RV >>>	2	4,7	Negative				
(80) DiaMed	RV >>>	1	2,3	Negative				
(159) Grifols	RV >>>	18	42	Negative				
(172) Immucor	RV >>>	5	12	Negative				
(173) Sanguin	RV >>>	4	9,3	Negative				
(203) ANTITOXIN	RV >>>	1	2,3	Negative				
Samples E2 and S2		43				43	43	100
(14) Bio-Rad	RV >>>	12	28	Negative				
(64) Exbio Olomouc	RV >>>	2	4,7	Negative				
(80) DiaMed	RV >>>	1	2,3	Negative				
(159) Grifols	RV >>>	18	42	Negative				
(172) Immucor	RV >>>	5	12	Negative				
(173) Sanguin	RV >>>	4	9,3	Negative				
(203) ANTITOXIN	RV >>>	1	2,3	Negative				
(727) Antigen Fy^a		44				44	44	100
Samples E1 and S1		44				44	44	100
(0) not specified	RV >>>	1	2,3	Positive				
(14) Bio-Rad	RV >>>	14	32	Positive				
(64) Exbio Olomouc	RV >>>	1	2,3	Positive				
(80) DiaMed	RV >>>	1	2,3	Positive				
(159) Grifols	RV >>>	18	41	Positive				
(172) Immucor	RV >>>	5	11	Positive				
(173) Sanguin	RV >>>	3	6,8	Positive				
(203) ANTITOXIN	RV >>>	1	2,3	Positive				
Samples E2 and S2		44				44	44	100
(0) not specified	RV >>>	1	2,3	Positive				
(14) Bio-Rad	RV >>>	14	32	Positive				
(64) Exbio Olomouc	RV >>>	1	2,3	Positive				
(80) DiaMed	RV >>>	1	2,3	Positive				
(159) Grifols	RV >>>	18	41	Positive				
(172) Immucor	RV >>>	5	11	Positive				
(173) Sanguin	RV >>>	3	6,8	Positive				
(203) ANTITOXIN	RV >>>	1	2,3	Positive				
(728) Antigen Fy^b		44				44	44	100
Samples E1 and S1		44				44	44	100
(0) not specified	RV >>>	1	2,3	Positive				
(14) Bio-Rad	RV >>>	14	32	Positive				
(64) Exbio Olomouc	RV >>>	1	2,3	Positive				
(80) DiaMed	RV >>>	1	2,3	Positive				
(159) Grifols	RV >>>	18	41	Positive				
(172) Immucor	RV >>>	5	11	Positive				
(173) Sanguin	RV >>>	3	6,8	Positive				
(203) ANTITOXIN	RV >>>	1	2,3	Positive				
Samples E2 and S2		44				44	44	100
(0) not specified	RV >>>	1	2,3	Positive				
(14) Bio-Rad	RV >>>	14	32	Positive				
(64) Exbio Olomouc	RV >>>	1	2,3	Positive				
(80) DiaMed	RV >>>	1	2,3	Positive				
(159) Grifols	RV >>>	18	41	Positive				
(172) Immucor	RV >>>	5	11	Positive				
(173) Sanguin	RV >>>	3	6,8	Positive				
(203) ANTITOXIN	RV >>>	1	2,3	Positive				
(722) Antigen M		43				43	43	100
Samples E1 and S1		43				43	43	100
(14) Bio-Rad	RV >>>	13	30	Negative				
(64) Exbio Olomouc	RV >>>	1	2,3	Negative				
(80) DiaMed	RV >>>	1	2,3	Negative				
(159) Grifols	RV >>>	17	40	Negative				

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(171) Diagast	RV >>>	1	2,3	Negative				
(172) Immucor	RV >>>	5	12	Negative				
(173) Sanguin	RV >>>	2	4,7	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	2,3	Negative				
(203) ANTITOXIN	RV >>>	2	4,7	Negative				
Samples E2 and S2		43			43	43	100	
(14) Bio-Rad	RV >>>	13	30	Negative				
(64) Exbio Olomouc	RV >>>	1	2,3	Negative				
(80) DiaMed	RV >>>	1	2,3	Negative				
(159) Grifols	RV >>>	17	40	Negative				
(171) Diagast	RV >>>	1	2,3	Negative				
(172) Immucor	RV >>>	5	12	Negative				
(173) Sanguin	RV >>>	2	4,7	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	2,3	Negative				
(203) ANTITOXIN	RV >>>	2	4,7	Negative				
(723) Antigen N		41			41	41	100	
Samples E1 and S1		41			41	41	100	
(14) Bio-Rad	RV >>>	13	32	Positive				
(64) Exbio Olomouc	RV >>>	1	2,4	Positive				
(80) DiaMed	RV >>>	1	2,4	Positive				
(159) Grifols	RV >>>	17	41	Positive				
(171) Diagast	RV >>>	1	2,4	Positive				
(172) Immucor	RV >>>	4	9,8	Positive				
(173) Sanguin	RV >>>	1	2,4	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	2,4	Positive				
(203) ANTITOXIN	RV >>>	2	4,9	Positive				
Samples E2 and S2		41			41	41	100	
(14) Bio-Rad	RV >>>	13	32	Positive				
(64) Exbio Olomouc	RV >>>	1	2,4	Positive				
(80) DiaMed	RV >>>	1	2,4	Positive				
(159) Grifols	RV >>>	17	41	Positive				
(171) Diagast	RV >>>	1	2,4	Positive				
(172) Immucor	RV >>>	4	9,8	Positive				
(173) Sanguin	RV >>>	1	2,4	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	2,4	Positive				
(203) ANTITOXIN	RV >>>	2	4,9	Positive				
(724) Antigen S		43			43	43	100	
Samples E1 and S1		43			43	43	100	
(14) Bio-Rad	RV >>>	14	33	Negative				
(64) Exbio Olomouc	RV >>>	1	2,3	Negative				
(80) DiaMed	RV >>>	1	2,3	Negative				
(159) Grifols	RV >>>	18	42	Negative				
(172) Immucor	RV >>>	5	12	Negative				
(173) Sanguin	RV >>>	2	4,7	Negative				
(203) ANTITOXIN	RV >>>	2	4,7	Negative				
Samples E2 and S2		43			43	43	100	
(14) Bio-Rad	RV >>>	14	33	Negative				
(64) Exbio Olomouc	RV >>>	1	2,3	Negative				
(80) DiaMed	RV >>>	1	2,3	Negative				
(159) Grifols	RV >>>	18	42	Negative				
(172) Immucor	RV >>>	5	12	Negative				
(173) Sanguin	RV >>>	2	4,7	Negative				
(203) ANTITOXIN	RV >>>	2	4,7	Negative				
(725) Antigen s		42			42	42	100	
Samples E1 and S1		42			42	42	100	
(14) Bio-Rad	RV >>>	14	33	Positive				
(64) Exbio Olomouc	RV >>>	1	2,4	Positive				
(80) DiaMed	RV >>>	1	2,4	Positive				
(159) Grifols	RV >>>	18	43	Positive				
(172) Immucor	RV >>>	4	9,5	Positive				
(173) Sanguin	RV >>>	3	7,1	Positive				
(203) ANTITOXIN	RV >>>	1	2,4	Positive				
Samples E2 and S2		42			42	42	100	
(14) Bio-Rad	RV >>>	14	33	Positive				
(64) Exbio Olomouc	RV >>>	1	2,4	Positive				
(80) DiaMed	RV >>>	1	2,4	Positive				
(159) Grifols	RV >>>	18	43	Positive				
(172) Immucor	RV >>>	4	9,5	Positive				
(173) Sanguin	RV >>>	3	7,1	Positive				

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Deadline: 27.9.2024

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} [%]	
(203) ANTITOXIN	RV	>>>	1	2,4	Positive			
(733) Antigen Le^a			34			34	32	94
Samples E1 and S1			34			34	33	97
(14) Bio-Rad	RV	>>>	12	35	Negative			
			1	2,9	Positive			
(64) Exbio Olomouc	RV	>>>	1	2,9	Negative			
(159) Grifols	RV	>>>	14	41	Negative			
(172) Immucor	RV	>>>	2	5,9	Negative			
(173) Sanguin	RV	>>>	1	2,9	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	2,9	Negative			
(203) ANTITOXIN	RV	>>>	2	5,9	Negative			
Samples E2 and S2			34			34	32	94
(14) Bio-Rad	RV	>>>	12	35	Negative			
			1	2,9	Positive			
(64) Exbio Olomouc			1	2,9	Positive			
(159) Grifols	RV	>>>	14	41	Negative			
(172) Immucor	RV	>>>	2	5,9	Negative			
(173) Sanguin	RV	>>>	1	2,9	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	2,9	Negative			
(203) ANTITOXIN	RV	>>>	2	5,9	Negative			
(734) Antigen Le^p			34			34	34	100
Samples E1 and S1			34			34	34	100
(14) Bio-Rad	RV	>>>	13	38	Negative			
(64) Exbio Olomouc	RV	>>>	1	2,9	Negative			
(159) Grifols	RV	>>>	14	41	Negative			
(172) Immucor	RV	>>>	2	5,9	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	2,9	Negative			
(203) ANTITOXIN	RV	>>>	2	5,9	Negative			
(999) another manufacturer	RV	>>>	1	2,9	Negative			
Samples E2 and S2			34			34	34	100
(14) Bio-Rad	RV	>>>	13	38	Negative			
(64) Exbio Olomouc	RV	>>>	1	2,9	Negative			
(159) Grifols	RV	>>>	14	41	Negative			
(172) Immucor	RV	>>>	2	5,9	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	2,9	Negative			
(203) ANTITOXIN	RV	>>>	2	5,9	Negative			
(999) another manufacturer	RV	>>>	1	2,9	Negative			
(731) Antigen Lu^a			31			31	31	100
Samples E1 and S1			31			31	31	100
(14) Bio-Rad	RV	>>>	9	29	Negative			
(64) Exbio Olomouc	RV	>>>	1	3,2	Negative			
(159) Grifols	RV	>>>	18	58	Negative			
(172) Immucor	RV	>>>	1	3,2	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	3,2	Negative			
(999) another manufacturer	RV	>>>	1	3,2	Negative			
Samples E2 and S2			31			31	31	100
(14) Bio-Rad	RV	>>>	9	29	Negative			
(64) Exbio Olomouc	RV	>>>	1	3,2	Negative			
(159) Grifols	RV	>>>	18	58	Negative			
(172) Immucor	RV	>>>	1	3,2	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	3,2	Negative			
(999) another manufacturer	RV	>>>	1	3,2	Negative			
(732) Antigen Lu^p			28			28	27	96
Samples E1 and S1			28			28	27	96
(14) Bio-Rad	RV	>>>	8	29	Positive			
(64) Exbio Olomouc	RV	>>>	1	3,6	Positive			
(159) Grifols			1	3,6	Negative			
	RV	>>>	16	57	Positive			
(172) Immucor	RV	>>>	1	3,6	Positive			
(999) another manufacturer	RV	>>>	1	3,6	Positive			
Samples E2 and S2			28			28	27	96
(14) Bio-Rad	RV	>>>	8	29	Positive			
(64) Exbio Olomouc	RV	>>>	1	3,6	Positive			
(159) Grifols			1	3,6	Negative			
	RV	>>>	16	57	Positive			
(172) Immucor	RV	>>>	1	3,6	Positive			
(999) another manufacturer	RV	>>>	1	3,6	Positive			

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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} [%]	
(726) Antigen P1		29			29	28	97	
Samples E1 and S1		29			29	29	100	
(14) Bio-Rad	RV >>>	11	38	Positive				
(64) Exbio Olomouc	RV >>>	1	3,4	Positive				
(159) Grifols	RV >>>	10	34	Positive				
(172) Immucor	RV >>>	2	6,9	Positive				
(173) Sanguin	RV >>>	2	6,9	Positive				
(174) IVT Imuno	RV >>>	1	3,4	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	3,4	Positive				
(203) ANTITOXIN	RV >>>	1	3,4	Positive				
Samples E2 and S2		29			29	28	97	
(14) Bio-Rad	RV >>>	11	38	Positive				
(64) Exbio Olomouc	RV >>>	1	3,4	Positive				
(159) Grifols	RV >>>	1	3,4	Negative				
	RV >>>	9	31	Positive				
(172) Immucor	RV >>>	2	6,9	Positive				
(173) Sanguin	RV >>>	2	6,9	Positive				
(174) IVT Imuno	RV >>>	1	3,4	Positive				
(183) Immunodiagnostic Systems	RV >>>	1	3,4	Positive				
(203) ANTITOXIN	RV >>>	1	3,4	Positive				
(740) Antigen Wr^a		8			8	7	88	
Samples E1 and S1		8			8	7	88	
(64) Exbio Olomouc	RV >>>	1	13	Negative				
(159) Grifols	RV >>>	2	25	Negative				
(172) Immucor	RV >>>	2	25	Negative				
		1	13	Positive				
(173) Sanguin	RV >>>	2	25	Negative				
Samples E2 and S2		8			8	7	88	
(64) Exbio Olomouc	RV >>>	1	13	Negative				
(159) Grifols	RV >>>	2	25	Negative				
(172) Immucor	RV >>>	2	25	Negative				
		1	13	Positive				
(173) Sanguin	RV >>>	2	25	Negative				
(737) Direct Coombs (antiglobulin) test		125			125	125	100	
Samples E1 and S1		125			125	125	100	
(0) not specified	RV >>>	1	0,8	Negative				
(14) Bio-Rad	RV >>>	57	46	Negative				
(40) Ortho Clinical Diagnostics	RV >>>	3	2,4	Negative				
(64) Exbio Olomouc	RV >>>	1	0,8	Negative				
(80) DiaMed	RV >>>	12	9,6	Negative				
(159) Grifols	RV >>>	50	40	Negative				
(172) Immucor	RV >>>	1	0,8	Negative				
Samples E2 and S2		125			125	125	100	
(0) not specified	RV >>>	1	0,8	Negative				
(14) Bio-Rad	RV >>>	57	46	Negative				
(40) Ortho Clinical Diagnostics	RV >>>	3	2,4	Negative				
(64) Exbio Olomouc	RV >>>	1	0,8	Negative				
(80) DiaMed	RV >>>	12	9,6	Negative				
(159) Grifols	RV >>>	50	40	Negative				
(172) Immucor	RV >>>	1	0,8	Negative				
(741) Antibody screening (IAT, blood donor)		80			80	80	100	
Samples E1 and S1		80			80	80	100	
(14) Bio-Rad	RV >>>	30	38	Positive				
(64) Exbio Olomouc	RV >>>	1	1,3	Positive				
(80) DiaMed	RV >>>	8	10	Positive				
(159) Grifols	RV >>>	30	38	Positive				
(171) Diagast	RV >>>	2	2,5	Positive				
(172) Immucor	RV >>>	9	11	Positive				
Samples E2 and S2		80			80	80	100	
(14) Bio-Rad	RV >>>	30	38	Positive				
(64) Exbio Olomouc	RV >>>	1	1,3	Positive				
(80) DiaMed	RV >>>	8	10	Positive				
(159) Grifols	RV >>>	30	38	Positive				
(171) Diagast	RV >>>	2	2,5	Positive				
(172) Immucor	RV >>>	9	11	Positive				
(743) Antibody screening (IAT, recipient)		142			142	142	100	
Samples E1 and S1		142			142	142	100	
(14) Bio-Rad	RV >>>	62	44	Positive				
(40) Ortho Clinical Diagnostics	RV >>>	2	1,4	Positive				

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Setup: groups - R (manufacturer of kit)

Test Sample Group	AV	N _{tot}	Frequency of the results		Success			
			N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(80) DiaMed	RV	>>>	12	8,5	Positive			
(159) Grifols	RV	>>>	61	43	Positive			
(172) Immucor	RV	>>>	5	3,5	Positive			
Samples E2 and S2			142			142	142	100
(14) Bio-Rad	RV	>>>	62	44	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	2	1,4	Positive			
(80) DiaMed	RV	>>>	12	8,5	Positive			
(159) Grifols	RV	>>>	61	43	Positive			
(172) Immucor	RV	>>>	5	3,5	Positive			
(745) Antibody screening (IAT, pregnant)			115			115	115	100
Samples E1 and S1			115			115	115	100
(14) Bio-Rad	RV	>>>	48	42	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,9	Positive			
(64) Exbio Olomouc	RV	>>>	1	0,9	Positive			
(80) DiaMed	RV	>>>	9	7,8	Positive			
(159) Grifols	RV	>>>	53	46	Positive			
(172) Immucor	RV	>>>	3	2,6	Positive			
Samples E2 and S2			115			115	115	100
(14) Bio-Rad	RV	>>>	48	42	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,9	Positive			
(64) Exbio Olomouc	RV	>>>	1	0,9	Positive			
(80) DiaMed	RV	>>>	9	7,8	Positive			
(159) Grifols	RV	>>>	53	46	Positive			
(172) Immucor	RV	>>>	3	2,6	Positive			
(747) Antibody screening (enzyme test)			90			90	90	100
Samples E1 and S1			90			90	90	100
(14) Bio-Rad	RV	>>>	42	47	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	1,1	Positive			
(80) DiaMed	RV	>>>	6	6,7	Positive			
(159) Grifols	RV	>>>	39	43	Positive			
(172) Immucor	RV	>>>	2	2,2	Positive			
Samples E2 and S2			90			90	90	100
(14) Bio-Rad	RV	>>>	42	47	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	1,1	Positive			
(80) DiaMed	RV	>>>	6	6,7	Positive			
(159) Grifols	RV	>>>	39	43	Positive			
(172) Immucor	RV	>>>	2	2,2	Positive			
(750) Antibody identification			46			46	42	91
Samples E1 and S1			46			46	45	98
(0) not specified	RV	>>>	45	98	anti-D			
			1	2,2	anti-D; anti-Wra			
Samples E2 and S2			46			46	43	93
(0) not specified		>	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		
(0) not specified		±	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		
(0) not specified		±	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			
(757) Antibody titre, Sample 2: 2nd antibody			15			0		
Samples E2 and S2			15			0		
(0) not specified		±	8	53	titre 0 (not measurable)			
		±	3	20	titre 1			
		±	3	20	titre 2			
		±	1	6,7	titre 256			

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Deadline: 27.9.2024

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} [%]
Set 3							
(761) Crossmatch (segment K1)		116			116	116	100
Sample S1		116			116	116	100
(0) not specified	RV	>>>	116	100	Negative test		
Sample S2		116			116	116	100
(0) not specified	RV	>>>	116	100	Negative test		
(762) Serve transfusion product? (segment K1) (transfusion in non-emergency mode)		116			0		
Sample S1		116			0		
(0) not specified	±	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		
(0) not specified	±	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	116	100
Sample S1		116			116	116	100
(0) not specified	RV	>>>	116	100	Positive test		
Sample S2		116			116	116	100
(0) not specified	RV	>>>	116	100	Positive test		
(765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode)		116			0		
Sample S1		116			0		
(0) not specified	±	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		
(0) not specified	±	114	98	Impossible, risk of haemolysis			
	±	2	1,7	Decision depends on results of other tests not performed in our laboratory			