

EQA round: IH1/22 - Blood Group Serology

Deadline: 11.03.2022

Key:	>>> ... marks correct (expected) result	N ... number of the results
	> ... marks conditionally correct (acceptable) result	Nrel ... relative number of the results
	± ... marks the result not evaluated	

Test

Sample	Group	N	Result	N _{rel}
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Set 1 and 2

(700) AB0 blood group

E1 and S1 (6) APR	>>>	1	Blood group: B	0,52 %
(14) Bio-Rad	>>>	63	Blood group: B	32 %
(40) Ortho Clinical Diagnostics	>>>	2	Blood group: B	1,0 %
(52) Dynex	>>>	3	Blood group: B	1,5 %
(64) Exbio Olomouc	>>>	8	Blood group: B	4,1 %
(80) DiaMed	>>>	14	Blood group: B	7,2 %
(159) Grifols	>>>	57	Blood group: B	29 %
(171) Diagast	>>>	2	Blood group: B	1,0 %
(172) Immucor	>>>	26	Blood group: B	13 %
(173) Sanguin	>>>	5	Blood group: B	2,6 %
(174) IVT Imuno	>>>	5	Blood group: B	2,6 %
(183) Immunodiagnostic Systems	>>>	2	Blood group: B	1,0 %
(203) ANTITOXIN	>>>	1	Blood group: B	0,52 %
(999) another manufacturer	>>>	5	Blood group: B	2,6 %
Total per sample: n = 194		Success: 100 %		

E2 and S2 (6) APR	>>>	1	Blood group: A	0,52 %
(14) Bio-Rad	>>>	63	Blood group: A	32 %
(40) Ortho Clinical Diagnostics	>>>	2	Blood group: A	1,0 %
(52) Dynex	>>>	3	Blood group: A	1,5 %
(64) Exbio Olomouc	>>>	8	Blood group: A	4,1 %
(80) DiaMed	>>>	14	Blood group: A	7,2 %
(159) Grifols	>>>	57	Blood group: A	29 %
(171) Diagast	>>>	2	Blood group: A	1,0 %
(172) Immucor	>>>	26	Blood group: A	13 %
(173) Sanguin	>>>	5	Blood group: A	2,6 %
(174) IVT Imuno	>>>	5	Blood group: A	2,6 %
(183) Immunodiagnostic Systems	>>>	2	Blood group: A	1,0 %
(203) ANTITOXIN	>>>	1	Blood group: A	0,52 %
(999) another manufacturer	>>>	5	Blood group: A	2,6 %
Total per sample: n = 194		Success: 100 %		

Total success: 100 %

(703) A subgroup

E1 and S1 (0) not specified	>>>	52	Not specified	100 %
Total per sample: n = 52		Success: 100 %		
E2 and S2 (0) not specified	>>>	1	A subgroup A1	1,9 %
	>>>	51	A subgroup A2	98 %
Total per sample: n = 52		Success: 98 %		

Total success: 98 %

(705) Rh D antigen (blood-donor)

E1 and S1 (0) not specified	>>>	1	Negative (RhD-)	0,82 %
(14) Bio-Rad	>>>	43	Negative (RhD-)	35 %
(52) Dynex	>>>	3	Negative (RhD-)	2,5 %
(64) Exbio Olomouc	>>>	3	Negative (RhD-)	2,5 %
(80) DiaMed	>>>	7	Negative (RhD-)	5,7 %
(159) Grifols	>>>	29	Negative (RhD-)	24 %
(171) Diagast	>>>	2	Negative (RhD-)	1,6 %
(172) Immucor	>>>	24	Negative (RhD-)	20 %
(173) Sanguin	>>>	2	Negative (RhD-)	1,6 %
(174) IVT Imuno	>>>	2	Negative (RhD-)	1,6 %
(183) Immunodiagnostic Systems	>>>	1	Negative (RhD-)	0,82 %
(203) ANTITOXIN	>>>	3	Negative (RhD-)	2,5 %
(999) another manufacturer	>>>	2	Negative (RhD-)	1,6 %
Total per sample: n = 122		Success: 100 %		

E2 and S2 (0) not specified	>>>	1	Negative (RhD-)	0,82 %
(14) Bio-Rad	>>>	43	Negative (RhD-)	35 %
(52) Dynex	>>>	3	Negative (RhD-)	2,5 %
(64) Exbio Olomouc	>>>	3	Negative (RhD-)	2,5 %
(80) DiaMed	>>>	7	Negative (RhD-)	5,7 %
(159) Grifols	>>>	28	Negative (RhD-)	23 %
	>>>	1	Positive (RhD+)	0,82 %
(171) Diagast	>>>	2	Negative (RhD-)	1,6 %
(172) Immucor	>>>	24	Negative (RhD-)	20 %

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Test	Sample	Group	N	Result	N _{rel}
E2 and S2	(173)	Sanguin	>>> 2	Negative (RhD-)	1,6 %
	(174)	IVT Imuno	>>> 2	Negative (RhD-)	1,6 %
	(183)	Immunodiagnostic Systems	>>> 1	Negative (RhD-)	0,82 %
	(203)	ANTITOXIN	>>> 3	Negative (RhD-)	2,5 %
	(999)	another manufacturer	>>> 2	Negative (RhD-)	1,6 %
	Total per sample: n = 122			Success: 99 %	
Total success: 99 %					

(709) Rh D antigen (recipient)

E1 and S1	(14)	Bio-Rad	>>> 62	Negative (RhD-)	34 %
	(40)	Ortho Clinical Diagnostics	>>> 2	Negative (RhD-)	1,1 %
	(52)	Dynex	>>> 2	Negative (RhD-)	1,1 %
	(64)	Exbio Olomouc	>>> 10	Negative (RhD-)	5,4 %
	(80)	DiaMed	>>> 11	Negative (RhD-)	6,0 %
	(159)	Grifols	>>> 54	Negative (RhD-)	29 %
	(171)	Diagast	>>> 2	Negative (RhD-)	1,1 %
	(172)	Immucor	>>> 26	Negative (RhD-)	14 %
	(173)	Sanguin	>>> 5	Negative (RhD-)	2,7 %
	(174)	IVT Imuno	>>> 2	Negative (RhD-)	1,1 %
	(183)	Immunodiagnostic Systems	>>> 1	Negative (RhD-)	0,54 %
	(203)	ANTITOXIN	>>> 3	Negative (RhD-)	1,6 %
	(999)	another manufacturer	>>> 4	Negative (RhD-)	2,2 %
Total per sample: n = 184			Success: 100 %		
E2 and S2	(14)	Bio-Rad	>>> 62	Negative (RhD-)	34 %
	(40)	Ortho Clinical Diagnostics	>>> 2	Negative (RhD-)	1,1 %
	(52)	Dynex	>>> 2	Negative (RhD-)	1,1 %
	(64)	Exbio Olomouc	>>> 10	Negative (RhD-)	5,4 %
	(80)	DiaMed	>>> 11	Negative (RhD-)	6,0 %
	(159)	Grifols	>>> 54	Negative (RhD-)	29 %
	(171)	Diagast	>>> 2	Negative (RhD-)	1,1 %
	(172)	Immucor	>>> 26	Negative (RhD-)	14 %
	(173)	Sanguin	>>> 5	Negative (RhD-)	2,7 %
	(174)	IVT Imuno	>>> 2	Negative (RhD-)	1,1 %
	(183)	Immunodiagnostic Systems	>>> 1	Negative (RhD-)	0,54 %
	(203)	ANTITOXIN	>>> 3	Negative (RhD-)	1,6 %
	(999)	another manufacturer	>>> 4	Negative (RhD-)	2,2 %
Total per sample: n = 184			Success: 100 %		
Total success: 100 %					

(715) Antigen C

E1 and S1	(14)	Bio-Rad	>>> 43	Negative	42 %
	(50)	Merck	>>> 1	Negative	0,98 %
	(64)	Exbio Olomouc	>>> 1	Negative	0,98 %
	(80)	DiaMed	>>> 8	Negative	7,8 %
	(159)	Grifols	>>> 28	Negative	27 %
	(171)	Diagast	>>> 1	Negative	0,98 %
	(172)	Immucor	>>> 10	Negative	9,8 %
	(173)	Sanguin	>>> 1	Negative	0,98 %
	(174)	IVT Imuno	>>> 3	Negative	2,9 %
	(183)	Immunodiagnostic Systems	>>> 1	Negative	0,98 %
	(203)	ANTITOXIN	>>> 3	Negative	2,9 %
	(999)	another manufacturer	>>> 2	Negative	2,0 %
	Total per sample: n = 102			Success: 100 %	
E2 and S2	(14)	Bio-Rad	>>> 43	Negative	42 %
	(50)	Merck	>>> 1	Negative	0,98 %
	(64)	Exbio Olomouc	>>> 1	Negative	0,98 %
	(80)	DiaMed	>>> 8	Negative	7,8 %
	(159)	Grifols	>>> 28	Negative	27 %
	(171)	Diagast	>>> 1	Negative	0,98 %
	(172)	Immucor	>>> 10	Negative	9,8 %
	(173)	Sanguin	>>> 1	Negative	0,98 %
	(174)	IVT Imuno	>>> 3	Negative	2,9 %
	(183)	Immunodiagnostic Systems	>>> 1	Negative	0,98 %
	(203)	ANTITOXIN	>>> 3	Negative	2,9 %
	(999)	another manufacturer	>>> 2	Negative	2,0 %
	Total per sample: n = 102			Success: 100 %	
Total success: 100 %					

(716) Antigen c

E1 and S1	(14)	Bio-Rad	>>> 43	Positive	42 %
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Test

Sample	Group	N	Result	N _{rel}
E1 and S1	(50) Merck	>>> 1	Positive	0,98 %
	(64) Exbio Olomouc	>>> 1	Positive	0,98 %
	(80) DiaMed	>>> 8	Positive	7,8 %
	(159) Grifols	>>> 28	Positive	27 %
	(171) Diagast	>>> 1	Positive	0,98 %
	(172) Immucor	>>> 10	Positive	9,8 %
	(173) Sanguin	>>> 1	Positive	0,98 %
	(174) IVT Imuno	>>> 3	Positive	2,9 %
	(183) Immunodiagnostic Systems	>>> 1	Positive	0,98 %
	(203) ANTITOXIN	>>> 3	Positive	2,9 %
	(999) another manufacturer	>>> 2	Positive	2,0 %
Total per sample: n = 102		Success: 100 %	-----	
E2 and S2	(14) Bio-Rad	>>> 43	Positive	42 %
	(50) Merck	>>> 1	Positive	0,98 %
	(64) Exbio Olomouc	>>> 1	Positive	0,98 %
	(80) DiaMed	>>> 8	Positive	7,8 %
	(159) Grifols	>>> 28	Positive	27 %
	(171) Diagast	>>> 1	Positive	0,98 %
	(172) Immucor	>>> 10	Positive	9,8 %
	(173) Sanguin	>>> 1	Positive	0,98 %
	(174) IVT Imuno	>>> 3	Positive	2,9 %
	(183) Immunodiagnostic Systems	>>> 1	Positive	0,98 %
	(203) ANTITOXIN	>>> 3	Positive	2,9 %
	(999) another manufacturer	>>> 2	Positive	2,0 %
Total per sample: n = 102		Success: 100 %	-----	

Total success: 100 %

(717) Antigen Cw

E1 and S1	(0) not specified	>>> 1	Negative	1,3 %
	(14) Bio-Rad	>>> 28	Negative	35 %
	(50) Merck	>>> 1	Negative	1,3 %
	(64) Exbio Olomouc	>>> 2	Negative	2,5 %
	(80) DiaMed	>>> 2	Negative	2,5 %
	(159) Grifols	>>> 29	Negative	36 %
	(170) Biotest	>>> 1	Negative	1,3 %
	(172) Immucor	>>> 8	Negative	10 %
	(173) Sanguin	>>> 4	Negative	5,0 %
	(174) IVT Imuno	>>> 2	Negative	2,5 %
	(203) ANTITOXIN	>>> 1	Negative	1,3 %
	(999) another manufacturer	>>> 1	Negative	1,3 %
Total per sample: n = 80		Success: 100 %	-----	
E2 and S2	(0) not specified	>>> 1	Negative	1,3 %
	(14) Bio-Rad	>>> 28	Negative	35 %
	(50) Merck	>>> 1	Negative	1,3 %
	(64) Exbio Olomouc	>>> 2	Negative	2,5 %
	(80) DiaMed	>>> 2	Negative	2,5 %
	(159) Grifols	>>> 28	Negative	35 %
			1 Positive	1,3 %
	(170) Biotest	>>> 1	Negative	1,3 %
	(172) Immucor	>>> 8	Negative	10 %
	(173) Sanguin	>>> 4	Negative	5,0 %
	(174) IVT Imuno	>>> 2	Negative	2,5 %
	(203) ANTITOXIN	>>> 1	Negative	1,3 %
	(999) another manufacturer	>>> 1	Negative	1,3 %
Total per sample: n = 80		Success: 99 %	-----	

Total success: 99 %

(718) Antigen E

E1 and S1	(14) Bio-Rad	>>> 43	Negative	42 %
	(50) Merck	>>> 1	Negative	0,98 %
	(64) Exbio Olomouc	>>> 1	Negative	0,98 %
	(80) DiaMed	>>> 8	Negative	7,8 %
	(159) Grifols	>>> 27	Negative	26 %
	(171) Diagast	>>> 1	Negative	0,98 %
	(172) Immucor	>>> 11	Negative	11 %
	(173) Sanguin	>>> 1	Negative	0,98 %
	(174) IVT Imuno	>>> 3	Negative	2,9 %
	(183) Immunodiagnostic Systems	>>> 1	Negative	0,98 %
	(203) ANTITOXIN	>>> 3	Negative	2,9 %
	(999) another manufacturer	>>> 2	Negative	2,0 %

Test

Sample	Group	N	Result	N _{rel}
Total per sample: n = 102		Success: 100 %		
E2 and S2	(14) Bio-Rad	>>> 43	Negative	42 %
	(50) Merck	>>> 1	Negative	0,98 %
	(64) Exbio Olomouc	>>> 1	Negative	0,98 %
	(80) DiaMed	>>> 8	Negative	7,8 %
	(159) Grifols	>>> 27	Negative	26 %
	(171) Diagast	>>> 1	Negative	0,98 %
	(172) Immucor	>>> 11	Negative	11 %
	(173) Sanguin	>>> 1	Negative	0,98 %
	(174) IVT Imuno	>>> 3	Negative	2,9 %
	(183) Immunodiagnostic Systems	>>> 1	Negative	0,98 %
	(203) ANTITOXIN	>>> 3	Negative	2,9 %
	(999) another manufacturer	>>> 2	Negative	2,0 %
Total per sample: n = 102		Success: 100 %		
Total success: 100 %				

(719) Antigen e

E1 and S1	(14) Bio-Rad	>>> 43	Positive	42 %
	(50) Merck	>>> 1	Positive	0,98 %
	(64) Exbio Olomouc	>>> 1	Positive	0,98 %
	(80) DiaMed	>>> 8	Positive	7,8 %
	(159) Grifols	>>> 28	Positive	27 %
	(171) Diagast	>>> 1	Positive	0,98 %
	(172) Immucor	>>> 10	Positive	9,8 %
	(173) Sanguin	>>> 1	Positive	0,98 %
	(174) IVT Imuno	>>> 3	Positive	2,9 %
	(183) Immunodiagnostic Systems	>>> 1	Positive	0,98 %
	(203) ANTITOXIN	>>> 3	Positive	2,9 %
	(999) another manufacturer	>>> 2	Positive	2,0 %
Total per sample: n = 102		Success: 100 %		
E2 and S2	(14) Bio-Rad	>>> 43	Positive	42 %
	(50) Merck	>>> 1	Positive	0,98 %
	(64) Exbio Olomouc	>>> 1	Positive	0,98 %
	(80) DiaMed	>>> 8	Positive	7,8 %
	(159) Grifols	>>> 28	Positive	27 %
	(171) Diagast	>>> 1	Positive	0,98 %
	(172) Immucor	>>> 10	Positive	9,8 %
	(173) Sanguin	>>> 1	Positive	0,98 %
	(174) IVT Imuno	>>> 3	Positive	2,9 %
	(183) Immunodiagnostic Systems	>>> 1	Positive	0,98 %
	(203) ANTITOXIN	>>> 3	Positive	2,9 %
	(999) another manufacturer	>>> 2	Positive	2,0 %
Total per sample: n = 102		Success: 100 %		
Total success: 100 %				

(720) Antigen K

E1 and S1	(14) Bio-Rad	>>> 42	Negative	39 %
	(50) Merck	>>> 1	Negative	0,92 %
	(64) Exbio Olomouc	>>> 1	Negative	0,92 %
	(80) DiaMed	>>> 9	Negative	8,3 %
	(159) Grifols	>>> 35	Negative	32 %
	(171) Diagast	>>> 1	Negative	0,92 %
	(172) Immucor	>>> 10	Negative	9,2 %
	(173) Sanguin	>>> 1	Negative	0,92 %
	(174) IVT Imuno	>>> 3	Negative	2,8 %
	(183) Immunodiagnostic Systems	>>> 1	Negative	0,92 %
	(203) ANTITOXIN	>>> 2	Negative	1,8 %
	(999) another manufacturer	>>> 3	Negative	2,8 %
Total per sample: n = 109		Success: 100 %		
E2 and S2	(14) Bio-Rad	>>> 41	Negative	38 %
		1	Positive	0,92 %
	(50) Merck	>>> 1	Negative	0,92 %
	(64) Exbio Olomouc	>>> 1	Negative	0,92 %
	(80) DiaMed	>>> 9	Negative	8,3 %
	(159) Grifols	>>> 1	Not specified	0,92 %
		34	Negative	31 %
	(171) Diagast	>>> 1	Negative	0,92 %
	(172) Immucor	>>> 10	Negative	9,2 %
	(173) Sanguin	>>> 1	Negative	0,92 %
	(174) IVT Imuno	>>> 3	Negative	2,8 %
	(183) Immunodiagnostic Systems	>>> 1	Negative	0,92 %

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Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (203)	ANTITOXIN	>>> 2	Negative	1,8 %
(999)	another manufacturer	>>> 3	Negative	2,8 %
Total per sample: n = 109		Success: 98 %		
Total success: 98 %				

(721) Antigen k

E1 and S1 (0)	not specified	>>> 1	Positive	2,3 %
(14)	Bio-Rad	>>> 9	Positive	20 %
(64)	Exbio Olomouc	>>> 3	Positive	6,8 %
(80)	DiaMed	>>> 2	Positive	4,5 %
(159)	Grifols	>>> 11	Positive	25 %
(172)	Immucor	>>> 9	Positive	20 %
(173)	Sanguin	>>> 7	Positive	16 %
(174)	IVT Imuno	>>> 1	Positive	2,3 %
(999)	another manufacturer	>>> 1	Positive	2,3 %
Total per sample: n = 44		Success: 100 %		
E2 and S2 (0)	not specified	>>> 1	Positive	2,3 %
(14)	Bio-Rad	>>> 9	Positive	20 %
(64)	Exbio Olomouc	>>> 3	Positive	6,8 %
(80)	DiaMed	>>> 2	Positive	4,5 %
(159)	Grifols	>>> 11	Positive	25 %
(172)	Immucor	>>> 9	Positive	20 %
(173)	Sanguin	>>> 7	Positive	16 %
(174)	IVT Imuno	>>> 1	Positive	2,3 %
(999)	another manufacturer	>>> 1	Positive	2,3 %
Total per sample: n = 44		Success: 100 %		
Total success: 100 %				

(722) Antigen M

E1 and S1 (6)	APR	>>> 1	Negative	2,0 %
(14)	Bio-Rad	>>> 13	Negative	27 %
(64)	Exbio Olomouc	>>> 2	Negative	4,1 %
(80)	DiaMed	>>> 5	Negative	10 %
(159)	Grifols	>>> 11	Negative	22 %
(172)	Immucor	>>> 9	Negative	18 %
(173)	Sanguin	>>> 4	Negative	8,2 %
(183)	Immunodiagnostic Systems	>>> 1	Negative	2,0 %
(203)	ANTITOXIN	>>> 3	Negative	6,1 %
Total per sample: n = 49		Success: 100 %		
E2 and S2 (6)	APR	>>> 1	Positive	2,0 %
(14)	Bio-Rad	>>> 13	Positive	27 %
(64)	Exbio Olomouc	>>> 2	Positive	4,1 %
(80)	DiaMed	>>> 5	Positive	10 %
(159)	Grifols	>>> 11	Positive	22 %
(172)	Immucor	>>> 9	Positive	18 %
(173)	Sanguin	>>> 4	Positive	8,2 %
(183)	Immunodiagnostic Systems	>>> 1	Positive	2,0 %
(203)	ANTITOXIN	>>> 3	Positive	6,1 %
Total per sample: n = 49		Success: 100 %		
Total success: 100 %				

(723) Antigen N

E1 and S1 (6)	APR	>>> 1	Positive	2,2 %
(14)	Bio-Rad	>>> 12	Positive	26 %
(52)	Dynex	>>> 1	Positive	2,2 %
(64)	Exbio Olomouc	>>> 1	Positive	2,2 %
(80)	DiaMed	>>> 5	Positive	11 %
(159)	Grifols	>>> 11	Positive	24 %
(171)	Diagast	>>> 1	Positive	2,2 %
(172)	Immucor	>>> 8	Positive	17 %
(173)	Sanguin	>>> 3	Positive	6,5 %
(183)	Immunodiagnostic Systems	>>> 1	Positive	2,2 %
(203)	ANTITOXIN	>>> 2	Positive	4,3 %
Total per sample: n = 46		Success: 100 %		
E2 and S2 (6)	APR	>>> 1	Negative	2,2 %
(14)	Bio-Rad	>>> 12	Negative	26 %
(52)	Dynex	>>> 1	Negative	2,2 %
(64)	Exbio Olomouc	>>> 1	Negative	2,2 %
(80)	DiaMed	>>> 5	Negative	11 %
(159)	Grifols	>>> 10	Negative	22 %

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Test

Sample	Group	N	Result	N _{rel}
E2 and S2 (159)	Grifols	1	Positive	2,2 %
(171)	Diagast	>>> 1	Negative	2,2 %
(172)	Immucor	>>> 8	Negative	17 %
(173)	Sanguin	>>> 3	Negative	6,5 %
(183)	Immunodiagnostic Systems	>>> 1	Negative	2,2 %
(203)	ANTITOXIN	>>> 2	Negative	4,3 %
Total per sample: n = 46		Success: 98 %		
Total success: 98 %				

(724) Antigen S

E1 and S1 (6)	APR	>>> 1	Negative	2,0 %
(14)	Bio-Rad	>>> 12	Negative	24 %
(50)	Merck	>>> 1	Negative	2,0 %
(52)	Dynex	>>> 1	Negative	2,0 %
(64)	Exbio Olomouc	>>> 2	Negative	4,0 %
(80)	DiaMed	>>> 5	Negative	10 %
(159)	Grifols	>>> 14	Negative	28 %
(172)	Immucor	>>> 7	Negative	14 %
(173)	Sanguin	>>> 4	Negative	8,0 %
(203)	ANTITOXIN	>>> 3	Negative	6,0 %
Total per sample: n = 50		Success: 100 %		
Total success: 98 %				
E2 and S2 (6)	APR	>>> 1	Positive	2,0 %
(14)	Bio-Rad	>>> 12	Positive	24 %
(50)	Merck	>>> 1	Positive	2,0 %
(52)	Dynex	>>> 1	Positive	2,0 %
(64)	Exbio Olomouc	>>> 2	Positive	4,0 %
(80)	DiaMed	>>> 5	Positive	10 %
(159)	Grifols	>>> 14	Positive	28 %
(172)	Immucor	>>> 7	Positive	14 %
(173)	Sanguin	>>> 4	Positive	8,0 %
(203)	ANTITOXIN	>>> 3	Positive	6,0 %
Total per sample: n = 50		Success: 100 %		
Total success: 100 %				

(725) Antigen s

E1 and S1 (6)	APR	>>> 1	Positive	2,0 %
(14)	Bio-Rad	>>> 11	Positive	22 %
(64)	Exbio Olomouc	>>> 3	Positive	6,1 %
(80)	DiaMed	>>> 5	Positive	10 %
(159)	Grifols	>>> 14	Positive	29 %
(172)	Immucor	>>> 6	Positive	12 %
(173)	Sanguin	>>> 6	Positive	12 %
(203)	ANTITOXIN	>>> 2	Positive	4,1 %
(999)	another manufacturer	>>> 1	Positive	2,0 %
Total per sample: n = 49		Success: 100 %		
Total success: 100 %				
E2 and S2 (6)	APR	>>> 1	Positive	2,0 %
(14)	Bio-Rad	>>> 11	Positive	22 %
(64)	Exbio Olomouc	>>> 3	Positive	6,1 %
(80)	DiaMed	>>> 5	Positive	10 %
(159)	Grifols	>>> 14	Positive	29 %
(172)	Immucor	>>> 6	Positive	12 %
(173)	Sanguin	>>> 6	Positive	12 %
(203)	ANTITOXIN	>>> 2	Positive	4,1 %
(999)	another manufacturer	>>> 1	Positive	2,0 %
Total per sample: n = 49		Success: 100 %		
Total success: 100 %				

(726) Antigen PI

E1 and S1 (6)	APR	>>> 1	Negative	2,7 %
(14)	Bio-Rad	>>> 10	Negative	27 %
(64)	Exbio Olomouc	>>> 3	Negative	8,1 %
(80)	DiaMed	>>> 2	Negative	5,4 %
(159)	Grifols	>>> 9	Negative	24 %
(172)	Immucor	>>> 4	Negative	11 %
(173)	Sanguin	>>> 5	Negative	14 %
(174)	IVT Imuno	>>> 1	Negative	2,7 %
(183)	Immunodiagnostic Systems	>>> 1	Negative	2,7 %
(203)	ANTITOXIN	>>> 1	Negative	2,7 %
Total per sample: n = 37		Success: 100 %		
Total success: 100 %				
E2 and S2 (6)	APR	>>> 1	Positive	2,7 %

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Test		N	Result	N _{rel}
Sample	Group			
E2 and S2	(14) Bio-Rad	>>> 10	Positive	27 %
	(64) Exbio Olomouc	>>> 3	Positive	8,1 %
	(80) DiaMed	>>> 2	Positive	5,4 %
	(159) Grifols	>>> 9	Positive	24 %
	(172) Immucor	>>> 4	Positive	11 %
	(173) Sanguin	>>> 5	Positive	14 %
	(174) IVT Imuno	>>> 1	Positive	2,7 %
	(183) Immunodiagnostic Systems	>>> 1	Positive	2,7 %
	(203) ANTITOXIN	>>> 1	Positive	2,7 %
Total per sample: n = 37		Success: 100 %		
Total success: 100 %				

(727) Antigen Fya

E1 and S1	(14) Bio-Rad	>>> 14	Negative	28 %
	(64) Exbio Olomouc	>>> 2	Negative	4,0 %
	(80) DiaMed	>>> 4	Negative	8,0 %
	(159) Grifols	>>> 15	Negative	30 %
	(172) Immucor	>>> 7	Negative	14 %
	(173) Sanguin	>>> 6	Negative	12 %
	(174) IVT Imuno	>>> 1	Negative	2,0 %
	(203) ANTITOXIN	>>> 1	Negative	2,0 %
Total per sample: n = 50		Success: 100 %		
E2 and S2	(14) Bio-Rad	>>> 14	Positive	28 %
	(64) Exbio Olomouc	>>> 2	Positive	4,0 %
	(80) DiaMed	>>> 4	Positive	8,0 %
	(159) Grifols	>>> 1	Negative	2,0 %
	(172) Immucor	>>> 14	Positive	28 %
	(173) Sanguin	>>> 7	Positive	14 %
	(174) IVT Imuno	>>> 6	Positive	12 %
	(203) ANTITOXIN	>>> 1	Positive	2,0 %
Total per sample: n = 50		Success: 98 %		
Total success: 98 %				

(728) Antigen Fyb

E1 and S1	(14) Bio-Rad	>>> 14	Positive	28 %
	(64) Exbio Olomouc	>>> 2	Positive	4,0 %
	(80) DiaMed	>>> 4	Positive	8,0 %
	(159) Grifols	>>> 1	Negative	2,0 %
	(172) Immucor	>>> 13	Positive	26 %
	(173) Sanguin	>>> 7	Positive	14 %
	(174) IVT Imuno	>>> 6	Positive	12 %
	(203) ANTITOXIN	>>> 1	Positive	2,0 %
Total per sample: n = 50		Success: 98 %		
E2 and S2	(14) Bio-Rad	>>> 14	Negative	28 %
	(64) Exbio Olomouc	>>> 2	Negative	4,0 %
	(80) DiaMed	>>> 4	Negative	8,0 %
	(159) Grifols	>>> 14	Negative	28 %
	(172) Immucor	>>> 7	Negative	14 %
	(173) Sanguin	>>> 6	Negative	12 %
	(174) IVT Imuno	>>> 1	Negative	2,0 %
	(203) ANTITOXIN	>>> 2	Negative	4,0 %
Total per sample: n = 50		Success: 100 %		
Total success: 98 %				

(729) Antigen Jka

E1 and S1	(0) not specified	>>> 1	Negative	2,0 %
	(6) APR	>>> 1	Negative	2,0 %
	(14) Bio-Rad	>>> 13	Negative	25 %
	(50) Merck	>>> 1	Negative	2,0 %
	(52) Dynex	>>> 2	Negative	3,9 %
	(64) Exbio Olomouc	>>> 2	Negative	3,9 %
	(80) DiaMed	>>> 3	Negative	5,9 %
	(159) Grifols	>>> 14	Negative	27 %
	(172) Immucor	>>> 7	Negative	14 %
	(173) Sanguin	>>> 6	Negative	12 %
	(203) ANTITOXIN	>>> 1	Negative	2,0 %
Total per sample: n = 51		Success: 100 %		
E2 and S2	(0) not specified	>>> 1	Negative	2,0 %

Test		N	Result	N _{rel}
Sample	Group			
E2 and S2	(6) APR	>>> 1	Negative	2,0 %
	(14) Bio-Rad	>>> 13	Negative	25 %
	(50) Merck	>>> 1	Negative	2,0 %
	(52) Dynex	>>> 2	Negative	3,9 %
	(64) Exbio Olomouc	>>> 2	Negative	3,9 %
	(80) DiaMed	>>> 3	Negative	5,9 %
	(159) Grifols	>>> 14	Negative	27 %
	(172) Immucor	>>> 7	Negative	14 %
	(173) Sanguin	>>> 6	Negative	12 %
	(203) ANTITOXIN	>>> 1	Negative	2,0 %
Total per sample: n = 51		Success: 100 %		
Total success: 100 %				

(730) Antigen Jkb

E1 and S1	(0) not specified	>>> 1	Positive	2,0 %
	(6) APR	>>> 1	Positive	2,0 %
	(14) Bio-Rad	>>> 12	Positive	24 %
	(50) Merck	>>> 1	Positive	2,0 %
	(52) Dynex	>>> 2	Positive	4,1 %
	(64) Exbio Olomouc	>>> 2	Positive	4,1 %
	(80) DiaMed	>>> 3	Positive	6,1 %
	(159) Grifols	>>> 14	Positive	29 %
	(172) Immucor	>>> 7	Positive	14 %
	(173) Sanguin	>>> 5	Positive	10 %
	(203) ANTITOXIN	>>> 1	Positive	2,0 %
Total per sample: n = 49		Success: 100 %		

E2 and S2	(0) not specified	>>> 1	Positive	2,0 %
	(6) APR	>>> 1	Positive	2,0 %
	(14) Bio-Rad	>>> 12	Positive	24 %
	(50) Merck	>>> 1	Positive	2,0 %
	(52) Dynex	>>> 2	Positive	4,1 %
	(64) Exbio Olomouc	>>> 2	Positive	4,1 %
	(80) DiaMed	>>> 3	Positive	6,1 %
	(159) Grifols	>>> 14	Positive	29 %
	(172) Immucor	>>> 7	Positive	14 %
	(173) Sanguin	>>> 5	Positive	10 %
	(203) ANTITOXIN	>>> 1	Positive	2,0 %
Total per sample: n = 49		Success: 100 %		
Total success: 100 %				

(731) Antigen Lua

E1 and S1	(0) not specified	>>> 1	Negative	2,9 %
			1 Positive	2,9 %
	(14) Bio-Rad	>>> 11	Negative	32 %
	(64) Exbio Olomouc	>>> 2	Negative	5,9 %
	(80) DiaMed	>>> 1	Negative	2,9 %
	(159) Grifols	>>> 14	Negative	41 %
	(172) Immucor	>>> 1	Negative	2,9 %
	(183) Immunodiagnostic Systems	>>> 2	Negative	5,9 %
	(999) another manufacturer	>>> 1	Negative	2,9 %
Total per sample: n = 34		Success: 97 %		

E2 and S2	(0) not specified	>>> 1	Negative	2,9 %
			1 Positive	2,9 %
	(14) Bio-Rad	>>> 11	Negative	32 %
	(64) Exbio Olomouc	>>> 2	Negative	5,9 %
	(80) DiaMed	>>> 1	Negative	2,9 %
	(159) Grifols	>>> 14	Negative	41 %
	(172) Immucor	>>> 1	Negative	2,9 %
	(183) Immunodiagnostic Systems	>>> 2	Negative	5,9 %
	(999) another manufacturer	>>> 1	Negative	2,9 %
Total per sample: n = 34		Success: 97 %		
Total success: 97 %				

(732) Antigen Lub

E1 and S1	(0) not specified		1 Negative	3,0 %
	(14) Bio-Rad	>>> 10	Positive	30 %
	(64) Exbio Olomouc	>>> 2	Positive	6,1 %
	(80) DiaMed	>>> 1	Positive	3,0 %
	(159) Grifols	>>> 13	Positive	39 %
	(172) Immucor	>>> 1	Positive	3,0 %

EQA round: IH1/22 - Blood Group Serology

Test	Sample	Group	N	Result	N _{rel}
E1 and S1	(173)	Sanguin	>>>	1 Positive	3,0 %
	(183)	Immunodiagnostic Systems	>>>	1 Positive	3,0 %
	(203)	ANTITOXIN	>>>	1 Positive	3,0 %
	(999)	another manufacturer	>>>	2 Positive	6,1 %
	Total per sample: n = 33			Success: 97 %	
E2 and S2	(0)	not specified		1 Negative	3,0 %
	(14)	Bio-Rad	>>>	10 Positive	30 %
	(64)	Exbio Olomouc	>>>	2 Positive	6,1 %
	(80)	DiaMed	>>>	1 Positive	3,0 %
	(159)	Grifols	>>>	13 Positive	39 %
	(172)	Immucor	>>>	1 Positive	3,0 %
	(173)	Sanguin	>>>	1 Positive	3,0 %
	(183)	Immunodiagnostic Systems	>>>	1 Positive	3,0 %
	(203)	ANTITOXIN	>>>	1 Positive	3,0 %
	(999)	another manufacturer	>>>	2 Positive	6,1 %
	Total per sample: n = 33			Success: 97 %	
Total success: 97 %					

(733) Antigen Lea

E1 and S1	(14)	Bio-Rad	>>>	10 Positive	27 %
	(50)	Merck	>>>	1 Positive	2,7 %
	(52)	Dynex	>>>	2 Positive	5,4 %
	(64)	Exbio Olomouc	>>>	1 Positive	2,7 %
	(80)	DiaMed	>>>	1 Positive	2,7 %
	(159)	Grifols		1 Negative	2,7 %
			>>>	9 Positive	24 %
	(172)	Immucor	>>>	6 Positive	16 %
	(173)	Sanguin	>>>	1 Positive	2,7 %
	(174)	IVT Imuno	>>>	1 Positive	2,7 %
	(183)	Immunodiagnostic Systems		1 Negative	2,7 %
(203)	ANTITOXIN		1 Negative	2,7 %	
		>>>	2 Positive	5,4 %	
Total per sample: n = 37			Success: 92 %		
E2 and S2	(14)	Bio-Rad	>>>	10 Positive	27 %
	(50)	Merck	>>>	1 Positive	2,7 %
	(52)	Dynex	>>>	2 Positive	5,4 %
	(64)	Exbio Olomouc	>>>	1 Positive	2,7 %
	(80)	DiaMed	>>>	1 Positive	2,7 %
	(159)	Grifols	>>>	10 Positive	27 %
	(172)	Immucor	>>>	6 Positive	16 %
	(173)	Sanguin	>>>	1 Positive	2,7 %
	(174)	IVT Imuno	>>>	1 Positive	2,7 %
	(183)	Immunodiagnostic Systems		1 Negative	2,7 %
	(203)	ANTITOXIN	>>>	3 Positive	8,1 %
Total per sample: n = 37			Success: 97 %		
Total success: 92 %					

(734) Antigen Leb

E1 and S1	(14)	Bio-Rad	>>>	10 Negative	27 %
	(50)	Merck	>>>	1 Negative	2,7 %
	(52)	Dynex	>>>	2 Negative	5,4 %
	(64)	Exbio Olomouc	>>>	1 Negative	2,7 %
	(80)	DiaMed	>>>	1 Negative	2,7 %
	(159)	Grifols	>>>	11 Negative	30 %
	(172)	Immucor	>>>	6 Negative	16 %
	(173)	Sanguin	>>>	1 Negative	2,7 %
	(174)	IVT Imuno	>>>	1 Negative	2,7 %
	(183)	Immunodiagnostic Systems		1 Positive	2,7 %
	(203)	ANTITOXIN	>>>	2 Negative	5,4 %
Total per sample: n = 37			Success: 97 %		
E2 and S2	(14)	Bio-Rad	>>>	9 Negative	24 %
				1 Positive	2,7 %
	(50)	Merck	>>>	1 Negative	2,7 %
	(52)	Dynex	>>>	2 Negative	5,4 %
	(64)	Exbio Olomouc	>>>	1 Negative	2,7 %
	(80)	DiaMed	>>>	1 Negative	2,7 %
	(159)	Grifols	>>>	10 Negative	27 %
				1 Positive	2,7 %
(172)	Immucor	>>>	6 Negative	16 %	
(173)	Sanguin	>>>	1 Negative	2,7 %	

EQA round: IH1/22 - Blood Group Serology

Deadline: 11.03.2022

Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (174)	IVT Imuno	>>> 1	Negative	2,7 %
	(183) Immunodiagnostic Systems	1	Positive	2,7 %
	(203) ANTITOXIN	>>> 2	Negative	5,4 %
Total per sample: n = 37		Success: 92 %		
Total success: 92 %				
(737) Direct Coombs (antiglobulin) test				
E1 and S1 (0)	not specified	>>> 1	Negative	0,66 %
	(14) Bio-Rad	>>> 75	Negative	50 %
	(40) Ortho Clinical Diagnostics	>>> 2	Negative	1,3 %
	(64) Exbio Olomouc	>>> 2	Negative	1,3 %
	(80) DiaMed	>>> 21	Negative	14 %
	(159) Grifols	>>> 47	Negative	31 %
	(172) Immucor	>>> 2	Negative	1,3 %
	(203) ANTITOXIN	>>> 1	Negative	0,66 %
Total per sample: n = 151		Success: 100 %		
E2 and S2 (0)	not specified	>>> 1	Negative	0,66 %
	(14) Bio-Rad	>>> 75	Negative	50 %
	(40) Ortho Clinical Diagnostics	>>> 2	Negative	1,3 %
	(64) Exbio Olomouc	>>> 2	Negative	1,3 %
	(80) DiaMed	>>> 20	Negative	13 %
		1	Positive	0,66 %
	(159) Grifols	>>> 47	Negative	31 %
	(172) Immucor	>>> 2	Negative	1,3 %
	(203) ANTITOXIN	1	Positive	0,66 %
Total per sample: n = 151		Success: 99 %		
Total success: 99 %				
(741) Antibody screening (IAT, blood donor)				
E1 and S1 (14)	Bio-Rad	>>> 50	Positive	49 %
	(64) Exbio Olomouc	>>> 1	Positive	0,97 %
	(80) DiaMed	>>> 15	Positive	15 %
	(159) Grifols	>>> 24	Positive	23 %
	(171) Diagast	>>> 2	Positive	1,9 %
	(172) Immucor	>>> 11	Positive	11 %
Total per sample: n = 103		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 50	Positive	49 %
	(64) Exbio Olomouc	>>> 1	Positive	0,97 %
	(80) DiaMed	>>> 15	Positive	15 %
	(159) Grifols	>>> 24	Positive	23 %
	(171) Diagast	>>> 2	Positive	1,9 %
	(172) Immucor	>>> 11	Positive	11 %
Total per sample: n = 103		Success: 100 %		
Total success: 100 %				
(743) Antibody screening (IAT, recipient)				
E1 and S1 (14)	Bio-Rad	>>> 82	Positive	48 %
	(40) Ortho Clinical Diagnostics	>>> 2	Positive	1,2 %
	(80) DiaMed	>>> 22	Positive	13 %
	(159) Grifols	>>> 58	Positive	34 %
	(172) Immucor	>>> 6	Positive	3,5 %
Total per sample: n = 170		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 82	Positive	48 %
	(40) Ortho Clinical Diagnostics	>>> 2	Positive	1,2 %
	(80) DiaMed	>>> 22	Positive	13 %
	(159) Grifols	>>> 58	Positive	34 %
	(172) Immucor	>>> 6	Positive	3,5 %
Total per sample: n = 170		Success: 100 %		
Total success: 100 %				
(745) Antibody screening (IAT, pregnant)				
E1 and S1 (14)	Bio-Rad	>>> 63	Positive	45 %
	(40) Ortho Clinical Diagnostics	>>> 2	Positive	1,4 %
	(64) Exbio Olomouc	>>> 1	Positive	0,71 %
	(80) DiaMed	>>> 19	Positive	14 %
	(159) Grifols	>>> 50	Positive	36 %
	(172) Immucor	>>> 5	Positive	3,6 %
Total per sample: n = 140		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 63	Positive	45 %
	(40) Ortho Clinical Diagnostics	>>> 2	Positive	1,4 %
	(64) Exbio Olomouc	>>> 1	Positive	0,71 %

EQA round: IH1/22 - Blood Group Serology

Deadline: 11.03.2022

Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (80) DiaMed	>>>	19	Positive	14 %
(159) Grifols	>>>	50	Positive	36 %
(172) Immucor	>>>	5	Positive	3,6 %
Total per sample: n = 140		Success: 100 %		
Total success: 100 %				
(747) Antibody screening (enzyme test)				
E1 and S1 (0) not specified		1	Positive	0,93 %
(14) Bio-Rad	>>>	49	Negative	45 %
		1	Positive	0,93 %
(40) Ortho Clinical Diagnostics	>>>	2	Negative	1,9 %
(80) DiaMed	>>>	15	Negative	14 %
		1	Positive	0,93 %
(159) Grifols	>>>	37	Negative	34 %
(172) Immucor	>>>	2	Negative	1,9 %
Total per sample: n = 108		Success: 97 %		
E2 and S2 (0) not specified	>>>	1	Positive	0,93 %
(14) Bio-Rad	>>>	50	Positive	46 %
(40) Ortho Clinical Diagnostics	>>>	2	Positive	1,9 %
(80) DiaMed	>>>	1	Negative	0,93 %
	>>>	15	Positive	14 %
(159) Grifols	>>>	37	Positive	34 %
(172) Immucor	>>>	2	Positive	1,9 %
Total per sample: n = 108		Success: 99 %		
Total success: 96 %				
(750) Antibody identification				
E1 and S1 (0) not specified		1	anti-Fya	1,9 %
	>>>	47	anti-Fya; anti-M	90 %
		4	anti-M	7,7 %
Total per sample: n = 52		Success: 90 %		
E2 and S2 (0) not specified	>	4	anti-D	7,7 %
	>>>	46	anti-D; anti-Jka	88 %
		1	anti-D; anti-Jka; anti-Cw	1,9 %
		1	anti-Jka; anti-N	1,9 %
Total per sample: n = 52		Success: 96 %		
Total success: 87 %				
(752) Antibody titre, Sample 1: 1st antibody				
E1 and S1 (0) not specified	±	2	titre 0 (not measurable)	5,3 %
	±	11	titre 1	29 %
	±	19	titre 2	50 %
	±	4	titre 4	11 %
	±	1	titre 8	2,6 %
	±	1	titre 16	2,6 %
Total per sample: n = 38		Success (only evaluated results): evaluation		
(753) Antibody titre, Sample 1: 2nd antibody				
E1 and S1 (0) not specified	±	2	titre 0 (not measurable)	4,9 %
	±	9	titre 1	22 %
	±	9	titre 2	22 %
	±	13	titre 4	32 %
	±	6	titre 8	15 %
	±	1	titre 16	2,4 %
	±	1	titre 32	2,4 %
Total per sample: n = 41		Success (only evaluated results): evaluation		
(756) Antibody titre, Sample 2: 1st antibody				
E2 and S2 (0) not specified	±	1	titre 256	2,4 %
	±	1	titre 512	2,4 %
	±	4	titre 8	9,5 %
	±	6	titre 16	14 %
	±	12	titre 32	29 %
	±	8	titre 64	19 %
	±	10	titre 128	24 %
Total per sample: n = 42		Success (only evaluated results): evaluation		
(757) Antibody titre, Sample 2: 2nd antibody				
E2 and S2 (0) not specified	±	5	titre 0 (not measurable)	15 %
	±	9	titre 1	27 %
	±	16	titre 2	48 %
	±	2	titre 4	6,1 %
	±	1	titre 32	3,0 %

Test

Sample	Group	N	Result	N _{rel}
Total per sample: n = 33		Success (only evaluated results): evaluation		

Set 3

(760) Crossmatch

S1	All results	33	Crossmatch not successful	24 %
		>>> 106	Crossmatch successful	76 %
Total per sample: n = 139		Success: 76 %		
S2	All results	1	Crossmatch not successful	0,72 %
		>>> 138	Crossmatch successful	99 %
Total per sample: n = 139		Success: 99 %		
Total success: 76 %				

(761) Crossmatch (segment K1)

S1	(0) not specified	33	Negative test	24 %
		>>> 106	Positive test	76 %
Total per sample: n = 139		Success: 76 %		
S2	(0) not specified	>>> 115	Negative test	83 %
		> 24	Positive test	17 %
Total per sample: n = 139		Success: 100 %		
Total success: 76 %				

(762) Serve transfusion product (segment K1)

S1	(0) not specified	± 109	Impossible, risk of haemolysis	78 %
		± 22	Decision depends on results of other tests not performed in our laboratory	16 %
		± 5	Only if more suitable products are not available	3,6 %
		± 3	Possible	2,2 %
Total per sample: n = 139		Success (only evaluated results): evaluation		
S2	(0) not specified	± 58	Impossible, risk of haemolysis	42 %
		± 68	Decision depends on results of other tests not performed in our laboratory	49 %
		± 6	Only if more suitable products are not available	4,3 %
		± 7	Possible	5,0 %
Total per sample: n = 139		Success (only evaluated results): evaluation		

(764) Crossmatch (segment K2)

S1	(0) not specified	5	Negative test	3,6 %
		>>> 134	Positive test	96 %
Total per sample: n = 139		Success: 96 %		
S2	(0) not specified	1	Negative test	0,72 %
		>>> 138	Positive test	99 %
Total per sample: n = 139		Success: 99 %		
Total success: 96 %				

(765) Serve transfusion product (segment K2)

S1	(0) not specified	± 133	Impossible, risk of haemolysis	96 %
		± 4	Decision depends on results of other tests not performed in our laboratory	2,9 %
		± 2	Only if more suitable products are not available	1,4 %
Total per sample: n = 139		Success (only evaluated results): evaluation		
S2	(0) not specified	± 136	Impossible, risk of haemolysis	98 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,4 %
		± 1	Possible	0,72 %
Total per sample: n = 139		Success (only evaluated results): evaluation		