

EQA round: IH1/21 - Blood Group Serology

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	(14) Bio-Rad	>>>	59	Blood group: 0	30 %
	(40) Ortho Clinical Diagnostics	>>>	4	Blood group: 0	2,1 %
	(52) Dynex	>>>	2	Blood group: 0	1,0 %
	(64) Exbio Olomouc	>>>	9	Blood group: 0	4,6 %
	(80) DiaMed	>>>	14	Blood group: 0	7,2 %
	(159) Grifols	>>>	55	Blood group: 0	28 %
	(171) Diagast	>>>	2	Blood group: 0	1,0 %
	(172) Immucor	>>>	28	Blood group: 0	14 %
	(173) Sanguin	>>>	6	Blood group: 0	3,1 %
	(174) IVT Imuno	>>>	6	Blood group: 0	3,1 %
	(183) Immunodiagnostic Systems	>>>	3	Blood group: 0	1,5 %
	(203) ANTITOXIN	>>>	1	Blood group: 0	0,52 %
	(999) another manufacturer	>>>	5	Blood group: 0	2,6 %
Total per sample: n = 194		Success:	100 %		

E2 and S2	(14) Bio-Rad	>>>	59	Blood group: B	30 %
	(40) Ortho Clinical Diagnostics	>>>	4	Blood group: B	2,1 %
	(52) Dynex	>>>	2	Blood group: B	1,0 %
	(64) Exbio Olomouc	>>>	9	Blood group: B	4,6 %
	(80) DiaMed	>>>	14	Blood group: B	7,2 %
	(159) Grifols	>>>	1	Not specified	0,52 %
		>>>	54	Blood group: B	28 %
	(171) Diagast	>>>	2	Blood group: B	1,0 %
	(172) Immucor	>>>	1	Not specified	0,52 %
		>>>	27	Blood group: B	14 %
	(173) Sanguin	>>>	1	Not specified	0,52 %
		>>>	5	Blood group: B	2,6 %
	(174) IVT Imuno	>>>	6	Blood group: B	3,1 %
	(183) Immunodiagnostic Systems	>>>	3	Blood group: B	1,5 %
	(203) ANTITOXIN	>>>	1	Blood group: B	0,52 %
	(999) another manufacturer	>>>	5	Blood group: B	2,6 %
Total per sample: n = 194		Success:	98 %		

Total success: 98 %

(705) Rh D antigen (blood-donor)

E1 and S1	(0) not specified	>>>	1	Negative (RhD-)	0,81 %
	(14) Bio-Rad	>>>	41	Negative (RhD-)	33 %
	(52) Dynex	>>>	3	Negative (RhD-)	2,4 %
	(64) Exbio Olomouc	>>>	4	Negative (RhD-)	3,3 %
	(80) DiaMed	>>>	8	Negative (RhD-)	6,5 %
	(159) Grifols	>>>	29	Negative (RhD-)	24 %
	(171) Diagast	>>>	2	Negative (RhD-)	1,6 %
	(172) Immucor	>>>	24	Negative (RhD-)	20 %
	(173) Sanguin	>>>	1	Negative (RhD-)	0,81 %
	(174) IVT Imuno	>>>	2	Negative (RhD-)	1,6 %
	(183) Immunodiagnostic Systems	>>>	2	Negative (RhD-)	1,6 %
	(203) ANTITOXIN	>>>	3	Negative (RhD-)	2,4 %
	(999) another manufacturer	>>>	3	Negative (RhD-)	2,4 %
Total per sample: n = 123		Success:	100 %		

E2 and S2	(0) not specified	>>>	1	Negative (RhD-)	0,81 %
	(14) Bio-Rad	>>>	41	Negative (RhD-)	33 %
	(52) Dynex	>>>	3	Negative (RhD-)	2,4 %
	(64) Exbio Olomouc	>>>	4	Negative (RhD-)	3,3 %
	(80) DiaMed	>>>	8	Negative (RhD-)	6,5 %
	(159) Grifols	>>>	29	Negative (RhD-)	24 %
	(171) Diagast	>>>	2	Negative (RhD-)	1,6 %
	(172) Immucor	>>>	24	Negative (RhD-)	20 %
	(173) Sanguin	>>>	1	Negative (RhD-)	0,81 %
	(174) IVT Imuno	>>>	2	Negative (RhD-)	1,6 %
	(183) Immunodiagnostic Systems	>>>	2	Negative (RhD-)	1,6 %
	(203) ANTITOXIN	>>>	3	Negative (RhD-)	2,4 %
	(999) another manufacturer	>>>	3	Negative (RhD-)	2,4 %
Total per sample: n = 123		Success:	100 %		

Total success: 100 %

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Deadline: 12.03.2021

Test	Sample	Group	N	Result	N _{rel}
(709) Rh D antigen (recipient)					
E1 and S1	(14)	Bio-Rad	>>> 58	Negative (RhD-)	32 %
	(40)	Ortho Clinical Diagnostics	>>> 4	Negative (RhD-)	2,2 %
	(52)	Dynex	>>> 1	Negative (RhD-)	0,56 %
	(64)	Exbio Olomouc	>>> 9	Negative (RhD-)	5,0 %
	(80)	DiaMed	>>> 11	Negative (RhD-)	6,1 %
	(159)	Grifols	>>> 51	Negative (RhD-)	28 %
	(170)	Biotest	>>> 1	Negative (RhD-)	0,56 %
	(171)	Diagast	>>> 2	Negative (RhD-)	1,1 %
	(172)	Immucor	>>> 26	Negative (RhD-)	15 %
	(173)	Sanguin	>>> 5	Negative (RhD-)	2,8 %
	(174)	IVT Imuno	>>> 2	Negative (RhD-)	1,1 %
	(183)	Immunodiagnostic Systems	>>> 1	Negative (RhD-)	0,56 %
	(203)	ANTITOXIN	>>> 3	Negative (RhD-)	1,7 %
	(999)	another manufacturer	>>> 5	Negative (RhD-)	2,8 %
Total per sample: n = 179			Success: 100 %		
E2 and S2	(14)	Bio-Rad	>>> 58	Negative (RhD-)	32 %
	(40)	Ortho Clinical Diagnostics	>>> 4	Negative (RhD-)	2,2 %
	(52)	Dynex	>>> 1	Negative (RhD-)	0,56 %
	(64)	Exbio Olomouc	>>> 9	Negative (RhD-)	5,0 %
	(80)	DiaMed	>>> 11	Negative (RhD-)	6,1 %
	(159)	Grifols	>>> 51	Negative (RhD-)	28 %
	(170)	Biotest	>>> 1	Negative (RhD-)	0,56 %
	(171)	Diagast	>>> 2	Negative (RhD-)	1,1 %
	(172)	Immucor	>>> 26	Negative (RhD-)	15 %
	(173)	Sanguin	>>> 5	Negative (RhD-)	2,8 %
	(174)	IVT Imuno	>>> 2	Negative (RhD-)	1,1 %
	(183)	Immunodiagnostic Systems	>>> 1	Negative (RhD-)	0,56 %
	(203)	ANTITOXIN	>>> 3	Negative (RhD-)	1,7 %
	(999)	another manufacturer	>>> 5	Negative (RhD-)	2,8 %
Total per sample: n = 179			Success: 100 %		
Total success: 100 %					
(715) Antigen C					
E1 and S1	(14)	Bio-Rad	>>> 40	Negative	41 %
	(64)	Exbio Olomouc	>>> 1	Negative	1,0 %
	(80)	DiaMed	>>> 10	Negative	10 %
	(159)	Grifols	>>> 25	Negative	26 %
	(171)	Diagast	>>> 1	Negative	1,0 %
	(172)	Immucor	>>> 11	Negative	11 %
	(173)	Sanguin	>>> 1	Negative	1,0 %
	(174)	IVT Imuno	>>> 3	Negative	3,1 %
	(183)	Immunodiagnostic Systems	>>> 1	Negative	1,0 %
	(203)	ANTITOXIN	>>> 2	Negative	2,1 %
	(999)	another manufacturer	>>> 2	Negative	2,1 %
Total per sample: n = 97			Success: 100 %		
E2 and S2	(14)	Bio-Rad	>>> 40	Negative	41 %
	(64)	Exbio Olomouc	>>> 1	Negative	1,0 %
	(80)	DiaMed	>>> 10	Negative	10 %
	(159)	Grifols	>>> 25	Negative	26 %
	(171)	Diagast	>>> 1	Negative	1,0 %
	(172)	Immucor	>>> 11	Negative	11 %
	(173)	Sanguin	>>> 1	Negative	1,0 %
	(174)	IVT Imuno	>>> 3	Negative	3,1 %
	(183)	Immunodiagnostic Systems	>>> 1	Negative	1,0 %
	(203)	ANTITOXIN	>>> 2	Negative	2,1 %
	(999)	another manufacturer	>>> 2	Negative	2,1 %
Total per sample: n = 97			Success: 100 %		
Total success: 100 %					
(716) Antigen c					
E1 and S1	(14)	Bio-Rad	>>> 40	Positive	41 %
	(64)	Exbio Olomouc	>>> 1	Positive	1,0 %
	(80)	DiaMed	>>> 10	Positive	10 %
	(159)	Grifols	>>> 25	Positive	26 %
	(171)	Diagast	>>> 1	Positive	1,0 %
	(172)	Immucor	>>> 11	Positive	11 %
	(173)	Sanguin	>>> 1	Positive	1,0 %
	(174)	IVT Imuno	>>> 3	Positive	3,1 %
	(183)	Immunodiagnostic Systems	>>> 1	Positive	1,0 %
	(203)	ANTITOXIN	>>> 2	Positive	2,1 %

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Test

Sample	Group	N	Result	N _{rel}
E1 and S1 (999) another manufacturer		>>> 2	Positive	2,1 %
Total per sample: n = 97		Success: 100 %		
E2 and S2 (14) Bio-Rad		>>> 40	Positive	41 %
(64) Exbio Olomouc		>>> 1	Positive	1,0 %
(80) DiaMed		>>> 10	Positive	10 %
(159) Grifols		>>> 25	Positive	26 %
(171) Diagast		>>> 1	Positive	1,0 %
(172) Immucor		>>> 11	Positive	11 %
(173) Sanguin		>>> 1	Positive	1,0 %
(174) IVT Imuno		>>> 3	Positive	3,1 %
(183) Immunodiagnostic Systems		>>> 1	Positive	1,0 %
(203) ANTITOXIN		>>> 2	Positive	2,1 %
(999) another manufacturer		>>> 2	Positive	2,1 %
Total per sample: n = 97		Success: 100 %		
Total success: 100 %				

(717) Antigen Cw

E1 and S1 (0) not specified		>>> 1	Negative	1,3 %
(14) Bio-Rad		>>> 25	Negative	33 %
(64) Exbio Olomouc		>>> 3	Negative	4,0 %
(80) DiaMed		>>> 3	Negative	4,0 %
(159) Grifols		>>> 27	Negative	36 %
(170) Biotest		>>> 1	Negative	1,3 %
(172) Immucor		>>> 8	Negative	11 %
(173) Sanguin		>>> 4	Negative	5,3 %
(174) IVT Imuno		>>> 2	Negative	2,7 %
(999) another manufacturer		>>> 1	Negative	1,3 %
Total per sample: n = 75		Success: 100 %		
E2 and S2 (0) not specified		>>> 1	Negative	1,3 %
(14) Bio-Rad		>>> 25	Negative	33 %
(64) Exbio Olomouc		>>> 3	Negative	4,0 %
(80) DiaMed		>>> 3	Negative	4,0 %
(159) Grifols		>>> 27	Negative	36 %
(170) Biotest		>>> 1	Negative	1,3 %
(172) Immucor		>>> 8	Negative	11 %
(173) Sanguin		>>> 4	Negative	5,3 %
(174) IVT Imuno		>>> 2	Negative	2,7 %
(999) another manufacturer		>>> 1	Negative	1,3 %
Total per sample: n = 75		Success: 100 %		
Total success: 100 %				

(718) Antigen E

E1 and S1 (14) Bio-Rad		>>> 40	Negative	41 %
(64) Exbio Olomouc		>>> 1	Negative	1,0 %
(80) DiaMed		>>> 10	Negative	10 %
(159) Grifols		>>> 25	Negative	26 %
(171) Diagast		>>> 1	Negative	1,0 %
(172) Immucor		>>> 11	Negative	11 %
(173) Sanguin		>>> 2	Negative	2,1 %
(174) IVT Imuno		>>> 3	Negative	3,1 %
(203) ANTITOXIN		>>> 2	Negative	2,1 %
(999) another manufacturer		>>> 2	Negative	2,1 %
Total per sample: n = 97		Success: 100 %		
E2 and S2 (14) Bio-Rad		>>> 40	Negative	41 %
(64) Exbio Olomouc		>>> 1	Negative	1,0 %
(80) DiaMed		>>> 10	Negative	10 %
(159) Grifols		>>> 25	Negative	26 %
(171) Diagast		>>> 1	Negative	1,0 %
(172) Immucor		>>> 11	Negative	11 %
(173) Sanguin		>>> 2	Negative	2,1 %
(174) IVT Imuno		>>> 3	Negative	3,1 %
(203) ANTITOXIN		>>> 2	Negative	2,1 %
(999) another manufacturer		>>> 2	Negative	2,1 %
Total per sample: n = 97		Success: 100 %		
Total success: 100 %				

(719) Antigen e

E1 and S1 (14) Bio-Rad		>>> 40	Positive	41 %
(64) Exbio Olomouc		>>> 1	Positive	1,0 %
(80) DiaMed		>>> 10	Positive	10 %

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Test

Sample	Group	N	Result	N _{rel}
E1 and S1	(159) Grifols	>>> 25	Positive	26 %
	(171) Diagast	>>> 1	Positive	1,0 %
	(172) Immucor	>>> 11	Positive	11 %
	(173) Sanguin	>>> 1	Positive	1,0 %
	(174) IVT Imuno	>>> 3	Positive	3,1 %
	(183) Immunodiagnostic Systems	>>> 1	Positive	1,0 %
	(203) ANTITOXIN	>>> 2	Positive	2,1 %
	(999) another manufacturer	>>> 2	Positive	2,1 %
	Total per sample: n = 97		Success: 100 %	
E2 and S2	(14) Bio-Rad	>>> 40	Positive	41 %
	(64) Exbio Olomouc	>>> 1	Positive	1,0 %
	(80) DiaMed	>>> 10	Positive	10 %
	(159) Grifols	>>> 25	Positive	26 %
	(171) Diagast	>>> 1	Positive	1,0 %
	(172) Immucor	>>> 11	Positive	11 %
	(173) Sanguin	>>> 1	Positive	1,0 %
	(174) IVT Imuno	>>> 3	Positive	3,1 %
	(183) Immunodiagnostic Systems	>>> 1	Positive	1,0 %
	(203) ANTITOXIN	>>> 2	Positive	2,1 %
	(999) another manufacturer	>>> 2	Positive	2,1 %
	Total per sample: n = 97		Success: 100 %	
Total success: 100 %				

(720) Antigen K

E1 and S1	(14) Bio-Rad	>>> 40	Negative	38 %
	(64) Exbio Olomouc	>>> 1	Negative	0,95 %
	(80) DiaMed	>>> 10	Negative	9,5 %
	(159) Grifols	>>> 31	Negative	30 %
	(171) Diagast	>>> 1	Negative	0,95 %
	(172) Immucor	>>> 11	Negative	10 %
	(173) Sanguin	>>> 1	Negative	0,95 %
	(174) IVT Imuno	>>> 3	Negative	2,9 %
	(183) Immunodiagnostic Systems	>>> 1	Negative	0,95 %
	(203) ANTITOXIN	>>> 3	Negative	2,9 %
	(999) another manufacturer	>>> 3	Negative	2,9 %
	Total per sample: n = 105		Success: 100 %	
E2 and S2	(14) Bio-Rad	>>> 40	Negative	38 %
	(64) Exbio Olomouc	>>> 1	Negative	0,95 %
	(80) DiaMed	>>> 10	Negative	9,5 %
	(159) Grifols	>>> 31	Negative	30 %
	(171) Diagast	>>> 1	Negative	0,95 %
	(172) Immucor	>>> 11	Negative	10 %
	(173) Sanguin	>>> 1	Negative	0,95 %
	(174) IVT Imuno	>>> 3	Negative	2,9 %
	(183) Immunodiagnostic Systems	>>> 1	Negative	0,95 %
	(203) ANTITOXIN	>>> 3	Negative	2,9 %
	(999) another manufacturer	>>> 3	Negative	2,9 %
	Total per sample: n = 105		Success: 100 %	
Total success: 100 %				

(721) Antigen k

E1 and S1	(14) Bio-Rad	>>> 10	Positive	21 %
	(64) Exbio Olomouc	>>> 3	Positive	6,4 %
	(80) DiaMed	>>> 2	Positive	4,3 %
	(159) Grifols	>>> 12	Positive	26 %
	(172) Immucor	>>> 10	Positive	21 %
	(173) Sanguin	>>> 7	Positive	15 %
	(174) IVT Imuno	>>> 1	Positive	2,1 %
	(203) ANTITOXIN	>>> 1	Positive	2,1 %
	(999) another manufacturer	>>> 1	Positive	2,1 %
	Total per sample: n = 47		Success: 100 %	
E2 and S2	(14) Bio-Rad	>>> 10	Positive	21 %
	(64) Exbio Olomouc	>>> 3	Positive	6,4 %
	(80) DiaMed	>>> 2	Positive	4,3 %
	(159) Grifols	>>> 12	Positive	26 %
	(172) Immucor	>>> 10	Positive	21 %
	(173) Sanguin	>>> 7	Positive	15 %
	(174) IVT Imuno	>>> 1	Positive	2,1 %
	(203) ANTITOXIN	>>> 1	Positive	2,1 %
	(999) another manufacturer	>>> 1	Positive	2,1 %

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Test

Sample	Group	N	Result	N _{rel}
----- Total per sample: n = 47 ----- Success: 100 % -----				
Total success: 100 %				

(722) Antigen M

E1 and S1 (6) APR	>>>	1	Positive	2,0 %
(14) Bio-Rad	>>>	14	Positive	27 %
(52) Dynex	>>>	1	Positive	2,0 %
(64) Exbio Olomouc	>>>	1	Positive	2,0 %
(80) DiaMed	>>>	5	Positive	9,8 %
(159) Grifols	>>>	11	Positive	22 %
(171) Diagast	>>>	1	Positive	2,0 %
(172) Immucor	>>>	8	Positive	16 %
(173) Sanguin	>>>	5	Positive	9,8 %
(183) Immunodiagnostic Systems	>>>	1	Positive	2,0 %
(203) ANTITOXIN	>>>	3	Positive	5,9 %
----- Total per sample: n = 51 ----- Success: 100 % -----				
E2 and S2 (6) APR	>>>	1	Positive	2,0 %
(14) Bio-Rad	>>>	14	Positive	27 %
(52) Dynex	>>>	1	Positive	2,0 %
(64) Exbio Olomouc	>>>	1	Positive	2,0 %
(80) DiaMed	>>>	5	Positive	9,8 %
(159) Grifols	>>>	11	Positive	22 %
(171) Diagast	>>>	1	Positive	2,0 %
(172) Immucor	>>>	8	Positive	16 %
(173) Sanguin	>>>	5	Positive	9,8 %
(183) Immunodiagnostic Systems	>>>	1	Positive	2,0 %
(203) ANTITOXIN	>>>	3	Positive	5,9 %
----- Total per sample: n = 51 ----- Success: 100 % -----				
Total success: 100 %				

(723) Antigen N

E1 and S1 (6) APR	>>>	1	Positive	2,1 %
(14) Bio-Rad	>>>	13	Positive	28 %
(52) Dynex	>>>	1	Positive	2,1 %
(64) Exbio Olomouc	>>>	1	Positive	2,1 %
(80) DiaMed	>>>	5	Positive	11 %
(159) Grifols	>>>	11	Positive	23 %
(171) Diagast	>>>	1	Positive	2,1 %
(172) Immucor	>>>	7	Positive	15 %
(173) Sanguin	>>>	3	Positive	6,4 %
(183) Immunodiagnostic Systems	>>>	1	Positive	2,1 %
(203) ANTITOXIN	>>>	3	Positive	6,4 %
----- Total per sample: n = 47 ----- Success: 100 % -----				
E2 and S2 (6) APR	>>>	1	Positive	2,1 %
(14) Bio-Rad	>>>	13	Positive	28 %
(52) Dynex	>>>	1	Positive	2,1 %
(64) Exbio Olomouc	>>>	1	Positive	2,1 %
(80) DiaMed	>>>	5	Positive	11 %
(159) Grifols	>>>	11	Positive	23 %
(171) Diagast	>>>	1	Positive	2,1 %
(172) Immucor	>>>	7	Positive	15 %
(173) Sanguin	>>>	3	Positive	6,4 %
(183) Immunodiagnostic Systems	>>>	1	Positive	2,1 %
(203) ANTITOXIN	>>>	3	Positive	6,4 %
----- Total per sample: n = 47 ----- Success: 100 % -----				
Total success: 100 %				

(724) Antigen S

E1 and S1 (6) APR	>>>	1	Negative	2,0 %
(14) Bio-Rad	>>>	14	Negative	28 %
(52) Dynex	>>>	1	Negative	2,0 %
(64) Exbio Olomouc	>>>	1	Negative	2,0 %
(80) DiaMed	>>>	5	Negative	10 %
(159) Grifols	>>>	13	Negative	26 %
(172) Immucor	>>>	7	Negative	14 %
(173) Sanguin	>>>	4	Negative	8,0 %
(203) ANTITOXIN	>>>	4	Negative	8,0 %
----- Total per sample: n = 50 ----- Success: 100 % -----				
E2 and S2 (6) APR	>>>	1	Positive	2,0 %
(14) Bio-Rad	>>>	14	Positive	28 %
(52) Dynex	>>>	1	Positive	2,0 %

Test

Sample	Group	N	Result	N _{rel}
E2 and S2 (64)	Exbio Olomouc	>>>	1 Positive	2,0 %
(80)	DiaMed	>>>	5 Positive	10 %
(159)	Grifols	>>>	13 Positive	26 %
(172)	Immucor	>>>	7 Positive	14 %
(173)	Sanguin	>>>	4 Positive	8,0 %
(203)	ANTITOXIN	>>>	4 Positive	8,0 %

----- 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	>>>	13 Positive	25 %
(64)	Exbio Olomouc	>>>	2 Positive	3,9 %
(80)	DiaMed	>>>	5 Positive	9,8 %
(159)	Grifols	>>>	13 Positive	25 %
(172)	Immucor	>>>	8 Positive	16 %
(173)	Sanguin	>>>	5 Positive	9,8 %
(203)	ANTITOXIN	>>>	3 Positive	5,9 %
(999)	another manufacturer	>>>	1 Positive	2,0 %

----- Total per sample: n = 51 ----- Success: 100 % -----

E2 and S2 (6)	APR	>>>	1 Negative	2,0 %
(14)	Bio-Rad	>>>	13 Negative	25 %
(64)	Exbio Olomouc	>>>	2 Negative	3,9 %
(80)	DiaMed	>>>	5 Negative	9,8 %
(159)	Grifols	>>>	13 Negative	25 %
(172)	Immucor	>>>	8 Negative	16 %
(173)	Sanguin	>>>	5 Negative	9,8 %
(203)	ANTITOXIN	>>>	3 Negative	5,9 %
(999)	another manufacturer	>>>	1 Negative	2,0 %

----- Total per sample: n = 51 ----- Success: 100 % -----

Total success: 100 %

(726) Antigen P1

E1 and S1 (6)	APR	>>>	1 Negative	2,8 %
(14)	Bio-Rad	>>>	11 Negative	31 %
(64)	Exbio Olomouc	>>>	2 Negative	5,6 %
(80)	DiaMed	>>>	2 Negative	5,6 %
(159)	Grifols	>>>	9 Negative	25 %
(172)	Immucor	>>>	4 Negative	11 %
(173)	Sanguin	>>>	4 Negative	11 %
(174)	IVT Imuno	>>>	1 Negative	2,8 %
(183)	Immunodiagnostic Systems	>>>	1 Negative	2,8 %
(203)	ANTITOXIN	>>>	1 Negative	2,8 %

----- Total per sample: n = 36 ----- Success: 100 % -----

E2 and S2 (6)	APR	>>>	1 Positive	2,8 %
(14)	Bio-Rad	>>>	11 Positive	31 %
(64)	Exbio Olomouc	>>>	2 Positive	5,6 %
(80)	DiaMed	>>>	2 Positive	5,6 %
(159)	Grifols	>>>	9 Positive	25 %
(172)	Immucor	>>>	4 Positive	11 %
(173)	Sanguin	>>>	4 Positive	11 %
(174)	IVT Imuno	>>>	1 Positive	2,8 %
(183)	Immunodiagnostic Systems	>>>	1 Positive	2,8 %
(203)	ANTITOXIN	>>>	1 Positive	2,8 %

----- Total per sample: n = 36 ----- Success: 100 % -----

Total success: 100 %

(727) Antigen Fya

E1 and S1 (14)	Bio-Rad	>>>	17 Negative	32 %
(64)	Exbio Olomouc	>>>	2 Negative	3,8 %
(80)	DiaMed	>>>	4 Negative	7,5 %
(159)	Grifols	>>>	14 Negative	26 %
(172)	Immucor	>>>	7 Negative	13 %
(173)	Sanguin	>>>	6 Negative	11 %
(174)	IVT Imuno	>>>	1 Negative	1,9 %
(203)	ANTITOXIN	>>>	2 Negative	3,8 %

----- Total per sample: n = 53 ----- Success: 100 % -----

E2 and S2 (14)	Bio-Rad	>>>	17 Positive	32 %
(64)	Exbio Olomouc	>>>	2 Positive	3,8 %
(80)	DiaMed	>>>	4 Positive	7,5 %

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Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (159)	Grifols	>>> 14	Positive	26 %
(172)	Immucor	>>> 7	Positive	13 %
(173)	Sanguin	>>> 6	Positive	11 %
(174)	IVT Imuno	>>> 1	Positive	1,9 %
(203)	ANTITOXIN	>>> 2	Positive	3,8 %
Total per sample: n = 53		Success: 100 %		
Total success: 100 %				
(728) Antigen Fyb				
E1 and S1 (14)	Bio-Rad	>>> 18	Positive	35 %
(64)	Exbio Olomouc	>>> 2	Positive	3,8 %
(80)	DiaMed	>>> 4	Positive	7,7 %
(159)	Grifols	>>> 14	Positive	27 %
(172)	Immucor	>>> 6	Positive	12 %
(173)	Sanguin	>>> 5	Positive	9,6 %
(174)	IVT Imuno	>>> 1	Positive	1,9 %
(203)	ANTITOXIN	>>> 2	Positive	3,8 %
Total per sample: n = 52		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 18	Positive	35 %
(64)	Exbio Olomouc	>>> 2	Positive	3,8 %
(80)	DiaMed	>>> 4	Positive	7,7 %
(159)	Grifols	>>> 14	Positive	27 %
(172)	Immucor	>>> 6	Positive	12 %
(173)	Sanguin	>>> 5	Positive	9,6 %
(174)	IVT Imuno	>>> 1	Positive	1,9 %
(203)	ANTITOXIN	>>> 2	Positive	3,8 %
Total per sample: n = 52		Success: 100 %		
Total success: 100 %				
(729) Antigen Jka				
E1 and S1 (0)	not specified	>>> 1	Positive	2,0 %
(6)	APR	>>> 1	Positive	2,0 %
(14)	Bio-Rad	>>> 14	Positive	27 %
(52)	Dynex	>>> 1	Positive	2,0 %
(64)	Exbio Olomouc	>>> 2	Positive	3,9 %
(80)	DiaMed	>>> 3	Positive	5,9 %
(159)	Grifols	>>> 15	Positive	29 %
(172)	Immucor	>>> 6	Positive	12 %
(173)	Sanguin	>>> 6	Positive	12 %
(203)	ANTITOXIN	>>> 2	Positive	3,9 %
Total per sample: n = 51		Success: 100 %		
E2 and S2 (0)	not specified	>>> 1	Negative	2,0 %
(6)	APR	>>> 1	Negative	2,0 %
(14)	Bio-Rad	>>> 14	Negative	27 %
(52)	Dynex	>>> 1	Negative	2,0 %
(64)	Exbio Olomouc	>>> 2	Negative	3,9 %
(80)	DiaMed	>>> 3	Negative	5,9 %
(159)	Grifols	>>> 15	Negative	29 %
(172)	Immucor	>>> 6	Negative	12 %
(173)	Sanguin	>>> 6	Negative	12 %
(203)	ANTITOXIN	>>> 2	Negative	3,9 %
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	>>> 14	Positive	27 %
(52)	Dynex	>>> 1	Positive	2,0 %
(64)	Exbio Olomouc	>>> 2	Positive	3,9 %
(80)	DiaMed	>>> 3	Positive	5,9 %
(159)	Grifols	>>> 15	Positive	29 %
(172)	Immucor	>>> 7	Positive	14 %
(173)	Sanguin	>>> 5	Positive	9,8 %
(203)	ANTITOXIN	>>> 2	Positive	3,9 %
Total per sample: n = 51		Success: 100 %		
E2 and S2 (0)	not specified	>>> 1	Positive	2,0 %
(6)	APR	>>> 1	Positive	2,0 %
(14)	Bio-Rad	>>> 14	Positive	27 %
(52)	Dynex	>>> 1	Positive	2,0 %

EQA round: IH1/21 - Blood Group Serology

Deadline: 12.03.2021

Test

Sample	Group	N	Result	N _{rel}
E2 and S2 (64)	Exbio Olomouc	>>> 2	Positive	3,9 %
(80)	DiaMed	>>> 3	Positive	5,9 %
(159)	Grifols	>>> 15	Positive	29 %
(172)	Immucor	>>> 7	Positive	14 %
(173)	Sanguin	>>> 5	Positive	9,8 %
(203)	ANTITOXIN	>>> 2	Positive	3,9 %
Total per sample: n = 51		Success: 100 %		
Total success: 100 %				
(731) Antigen Lua				
E1 and S1 (0)	not specified	>>> 1	Negative	3,2 %
(14)	Bio-Rad	>>> 9	Negative	29 %
(64)	Exbio Olomouc	>>> 2	Negative	6,5 %
(159)	Grifols	>>> 16	Negative	52 %
(172)	Immucor	>>> 1	Negative	3,2 %
(173)	Sanguin	>>> 2	Negative	6,5 %
Total per sample: n = 31		Success: 100 %		
E2 and S2 (0)	not specified	>>> 1	Negative	3,2 %
(14)	Bio-Rad	>>> 9	Negative	29 %
(64)	Exbio Olomouc	>>> 2	Negative	6,5 %
(159)	Grifols	>>> 16	Negative	52 %
(172)	Immucor	>>> 1	Negative	3,2 %
(173)	Sanguin	>>> 2	Negative	6,5 %
Total per sample: n = 31		Success: 100 %		
Total success: 100 %				
(732) Antigen Lub				
E1 and S1 (14)	Bio-Rad	>>> 9	Positive	28 %
(64)	Exbio Olomouc	>>> 2	Positive	6,3 %
(159)	Grifols	>>> 16	Positive	50 %
(172)	Immucor	>>> 1	Positive	3,1 %
(173)	Sanguin	>>> 2	Positive	6,3 %
(183)	Immunodiagnostic Systems	>>> 1	Positive	3,1 %
(999)	another manufacturer	>>> 1	Positive	3,1 %
Total per sample: n = 32		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 9	Positive	28 %
(64)	Exbio Olomouc	>>> 2	Positive	6,3 %
(159)	Grifols	>>> 1	Negative	3,1 %
(172)	Immucor	>>> 15	Positive	47 %
(173)	Sanguin	>>> 1	Positive	3,1 %
(183)	Immunodiagnostic Systems	>>> 2	Positive	6,3 %
(999)	another manufacturer	>>> 1	Positive	3,1 %
Total per sample: n = 32		Success: 97 %		
Total success: 97 %				
(733) Antigen Lea				
E1 and S1 (14)	Bio-Rad	>>> 12	Negative	30 %
(52)	Dynex	>>> 2	Negative	5,0 %
(64)	Exbio Olomouc	>>> 1	Negative	2,5 %
(80)	DiaMed	>>> 1	Negative	2,5 %
(159)	Grifols	>>> 12	Negative	30 %
(172)	Immucor	>>> 5	Negative	13 %
(173)	Sanguin	>>> 3	Negative	7,5 %
(174)	IVT Imuno	>>> 1	Negative	2,5 %
(183)	Immunodiagnostic Systems	>>> 1	Negative	2,5 %
(203)	ANTITOXIN	>>> 2	Negative	5,0 %
Total per sample: n = 40		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 12	Negative	30 %
(52)	Dynex	>>> 2	Negative	5,0 %
(64)	Exbio Olomouc	>>> 1	Negative	2,5 %
(80)	DiaMed	>>> 1	Negative	2,5 %
(159)	Grifols	>>> 12	Negative	30 %
(172)	Immucor	>>> 5	Negative	13 %
(173)	Sanguin	>>> 3	Negative	7,5 %
(174)	IVT Imuno	>>> 1	Negative	2,5 %
(183)	Immunodiagnostic Systems	>>> 1	Negative	2,5 %
(203)	ANTITOXIN	>>> 2	Negative	5,0 %
Total per sample: n = 40		Success: 100 %		
Total success: 100 %				

Test		N	Result	N _{rel}
Sample	Group			
(734) Antigen Leb				
E1 and S1	(14) Bio-Rad	>>> 12	Positive	30 %
	(52) Dynex	>>> 2	Positive	5,0 %
	(64) Exbio Olomouc	>>> 1	Positive	2,5 %
	(80) DiaMed	>>> 1	Positive	2,5 %
	(159) Grifols	>>> 12	Positive	30 %
	(172) Immucor	>>> 5	Positive	13 %
	(173) Sanguin	>>> 3	Positive	7,5 %
	(174) IVT Imuno	>>> 1	Positive	2,5 %
	(183) Immunodiagnostic Systems	>>> 1	Positive	2,5 %
	(203) ANTITOXIN	>>> 2	Positive	5,0 %
----- Total per sample: n = 40 -----		Success: 100 %	-----	
E2 and S2	(14) Bio-Rad	>>> 12	Positive	30 %
	(52) Dynex	>>> 2	Positive	5,0 %
	(64) Exbio Olomouc	>>> 1	Positive	2,5 %
	(80) DiaMed	>>> 1	Positive	2,5 %
	(159) Grifols	>>> 12	Positive	30 %
	(172) Immucor	>>> 5	Positive	13 %
	(173) Sanguin	>>> 3	Positive	7,5 %
	(174) IVT Imuno	>>> 1	Positive	2,5 %
	(183) Immunodiagnostic Systems	>>> 1	Positive	2,5 %
	(203) ANTITOXIN	>>> 2	Positive	5,0 %
----- Total per sample: n = 40 -----		Success: 100 %	-----	
Total success: 100 %				
(737) Direct Coombs (antiglobulin) test				
E1 and S1	(14) Bio-Rad	>>> 74	Negative	49 %
	(40) Ortho Clinical Diagnostics	>>> 4	Negative	2,6 %
	(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	(14) Bio-Rad	>>> 74	Negative	49 %
	(40) Ortho Clinical Diagnostics	>>> 4	Negative	2,6 %
	(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 %	-----	
Total success: 100 %				
(741) Antibody screening (IAT, blood donor)				
E1 and S1	(14) Bio-Rad	>>> 4	Negative	4,0 %
	(64) Exbio Olomouc	>>> 42	Positive	42 %
	(80) DiaMed	>>> 1	Positive	0,99 %
	(159) Grifols	>>> 15	Positive	15 %
	(171) Diagast	>>> 26	Positive	26 %
	(172) Immucor	>>> 2	Positive	2,0 %
	(172) Immucor	>>> 11	Positive	11 %
----- Total per sample: n = 101 -----		Success: 96 %	-----	
E2 and S2	(14) Bio-Rad	>>> 46	Positive	46 %
	(64) Exbio Olomouc	>>> 1	Positive	0,99 %
	(80) DiaMed	>>> 15	Positive	15 %
	(159) Grifols	>>> 26	Positive	26 %
	(171) Diagast	>>> 2	Positive	2,0 %
	(172) Immucor	>>> 11	Positive	11 %
----- Total per sample: n = 101 -----		Success: 100 %	-----	
Total success: 96 %				
(743) Antibody screening (IAT, recipient)				
E1 and S1	(0) not specified	>>> 1	Positive	0,61 %
	(14) Bio-Rad	>>> 75	Positive	45 %
	(40) Ortho Clinical Diagnostics	>>> 4	Positive	2,4 %
	(80) DiaMed	>>> 22	Positive	13 %
	(159) Grifols	>>> 57	Positive	35 %
	(172) Immucor	>>> 6	Positive	3,6 %
----- Total per sample: n = 165 -----		Success: 100 %	-----	
E2 and S2	(0) not specified	>>> 1	Positive	0,61 %

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Test	Sample	Group	N	Result	N _{rel}
E2 and S2 (14)	Bio-Rad	>>>	75	Positive	45 %
	(40) Ortho Clinical Diagnostics	>>>	4	Positive	2,4 %
	(80) DiaMed	>>>	22	Positive	13 %
	(159) Grifols	>>>	57	Positive	35 %
	(172) Immucor	>>>	6	Positive	3,6 %
	Total per sample: n = 165		Success: 100 %		
Total success: 100 %					
(745) Antibody screening (IAT, pregnant)					
E1 and S1 (14)	Bio-Rad	>>>	58	Positive	42 %
	(40) Ortho Clinical Diagnostics	>>>	4	Positive	2,9 %
	(64) Exbio Olomouc	>>>	1	Positive	0,72 %
	(80) DiaMed	>>>	19	Positive	14 %
	(159) Grifols	>>>	50	Positive	36 %
	(172) Immucor	>>>	6	Positive	4,3 %
Total per sample: n = 138		Success: 100 %			
E2 and S2 (14)	Bio-Rad	>>>	58	Positive	42 %
	(40) Ortho Clinical Diagnostics	>>>	4	Positive	2,9 %
	(64) Exbio Olomouc	>>>	1	Positive	0,72 %
	(80) DiaMed	>>>	19	Positive	14 %
	(159) Grifols	>>>	50	Positive	36 %
	(172) Immucor	>>>	6	Positive	4,3 %
Total per sample: n = 138		Success: 100 %			
Total success: 100 %					
(747) Antibody screening (enzyme test)					
E1 and S1 (14)	Bio-Rad	>>>	46	Negative	41 %
			2	Positive	1,8 %
	(40) Ortho Clinical Diagnostics	>>>	4	Negative	3,6 %
	(80) DiaMed	>>>	16	Negative	14 %
			2	Positive	1,8 %
	(159) Grifols	>>>	40	Negative	36 %
(172) Immucor	>>>	2	Negative	1,8 %	
Total per sample: n = 112		Success: 96 %			
E2 and S2 (14)	Bio-Rad	>>>	31	Negative	28 %
		>	17	Positive	15 %
	(40) Ortho Clinical Diagnostics	>>>	1	Negative	0,89 %
		>	3	Positive	2,7 %
	(80) DiaMed	>>>	11	Negative	9,8 %
		>	7	Positive	6,3 %
(159) Grifols	>>>	40	Negative	36 %	
(172) Immucor	>>>	1	Negative	0,89 %	
	>	1	Positive	0,89 %	
Total per sample: n = 112		Success: 100 %			
Total success: 96 %					
(750) Antibody identification					
E1 and S1 (0) not specified		>>>	52	anti-Fya	100 %
Total per sample: n = 52		Success: 100 %			
E2 and S2 (0) not specified			1	anti-Lub	1,9 %
		>	17	anti-s	33 %
			1	anti-s; anti-E	1,9 %
			1	anti-s; anti-Jka	1,9 %
			1	anti-s; anti-K; anti-Lea	1,9 %
		>>>	31	anti-s; anti-M	60 %
Total per sample: n = 52		Success: 92 %			
Total success: 92 %					
(752) Antibody titre, Sample 1: 1st antibody					
E1 and S1 (0) not specified		±	2	titre 1	4,4 %
		±	30	titre 2	67 %
		±	13	titre 4	29 %
Total per sample: n = 45		Success (only evaluated results): evaluation			
(756) Antibody titre, Sample 2: 1st antibody					
E2 and S2 (0) not specified		±	10	titre 256	23 %
		±	3	titre 512	7,0 %
		±	1	titre 1000	2,3 %
		±	2	titre 16	4,7 %
		±	4	titre 32	9,3 %
		±	7	titre 64	16 %
	±	16	titre 128	37 %	

Test

Sample	Group	N	Result	N _{rel}
Total per sample: n = 43		Success (only evaluated results): evaluation		

(757) Antibody titre, Sample 2: 2nd antibody

E2 and S2 (0) not specified	± 5	titre 1	20 %	
	± 4	titre 2	16 %	
	± 16	titre 4	64 %	
Total per sample: n = 25		Success (only evaluated results): evaluation		

Set 3**(760) Crossmatch**

S1	All results	13	Crossmatch not successful	9,2 %
		>>> 128	Crossmatch successful	91 %
Total per sample: n = 141		Success: 91 %		
S2	All results	1	Crossmatch not successful	0,71 %
		>>> 140	Crossmatch successful	99 %
Total per sample: n = 141		Success: 99 %		
Total success: 90 %				

(761) Crossmatch (segment K1)

S1	(0) not specified	1	Negative test	0,71 %
		>>> 140	Positive test	99 %
Total per sample: n = 141		Success: 99 %		
S2	(0) not specified	1	Negative test	0,71 %
		>>> 140	Positive test	99 %
Total per sample: n = 141		Success: 99 %		
Total success: 99 %				

(762) Serve transfusion product (segment K1)

S1	(0) not specified	± 139	Impossible, risk of haemolysis	99 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,4 %
Total per sample: n = 141		Success (only evaluated results): evaluation		
S2	(0) not specified	± 132	Impossible, risk of haemolysis	94 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,4 %
		± 7	Only if more suitable products are not available	5,0 %
Total per sample: n = 141		Success (only evaluated results): evaluation		

(764) Crossmatch (segment K2)

S1	(0) not specified	13	Negative test	9,2 %
		>>> 128	Positive test	91 %
Total per sample: n = 141		Success: 91 %		
S2	(0) not specified	>>> 141	Positive test	100 %
Total per sample: n = 141		Success: 100 %		
Total success: 91 %				

(765) Serve transfusion product (segment K2)

S1	(0) not specified	± 131	Impossible, risk of haemolysis	93 %
		± 8	Decision depends on results of other tests not performed in our laboratory	5,7 %
		± 1	Only if more suitable products are not available	0,71 %
		± 1	Possible	0,71 %
Total per sample: n = 141		Success (only evaluated results): evaluation		
S2	(0) not specified	± 139	Impossible, risk of haemolysis	99 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,4 %
Total per sample: n = 141		Success (only evaluated results): evaluation		