

EQA round: IH2/22 - Blood Group Serology

Deadline: 03.06.2022

Key: >>> ... marks correct (expected) result
> ... marks conditionally correct (acceptable) result
± ... marks the result not evaluated

N ... number of the results
Nrel ... relative number of the results

Test

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

(700) AB0 blood group

E1 and S1 (6) APR	>>>	3	Blood group: B	2,1 %
(14) Bio-Rad	>>>	48	Blood group: B	33 %
(40) Ortho Clinical Diagnostics	>>>	2	Blood group: B	1,4 %
(52) Dynex	>>>	1	Blood group: B	0,69 %
(64) Exbio Olomouc	>>>	7	Blood group: B	4,8 %
(80) DiaMed	>>>	11	Blood group: B	7,6 %
(159) Grifols	>>>	35	Blood group: B	24 %
(172) Immucor	>>>	18	Blood group: B	12 %
(173) Sanguin	>>>	8	Blood group: B	5,5 %
(174) IVT Imuno	>>>	7	Blood group: B	4,8 %
(203) ANTITOXIN	>>>	1	Blood group: B	0,69 %
(999) another manufacturer	>>>	4	Blood group: B	2,8 %
----- Total per sample: n = 145 ----- Success: 100 % -----				

E2 and S2 (6) APR	>>>	3	Blood group: A	2,1 %
(14) Bio-Rad	>>>	1	Not specified	0,69 %
	>>>	47	Blood group: A	32 %
(40) Ortho Clinical Diagnostics	>>>	2	Blood group: A	1,4 %
(52) Dynex	>>>	1	Blood group: A	0,69 %
(64) Exbio Olomouc	>>>	7	Blood group: A	4,8 %
(80) DiaMed	>>>	11	Blood group: A	7,6 %
(159) Grifols	>>>	35	Blood group: A	24 %
(172) Immucor	>>>	18	Blood group: A	12 %
(173) Sanguin	>>>	8	Blood group: A	5,5 %
(174) IVT Imuno	>>>	7	Blood group: A	4,8 %
(203) ANTITOXIN	>>>	1	Blood group: A	0,69 %
(999) another manufacturer	>>>	4	Blood group: A	2,8 %
----- Total per sample: n = 145 ----- Success: 99 % -----				

Total success: 99 %

(703) A subgroup

E1 and S1 (0) not specified	>>>	49	Not specified	98 %
		1	A subgroup A1	2,0 %
----- Total per sample: n = 50 ----- Success: 98 % -----				

E2 and S2 (0) not specified	>>>	1	Not specified	2,0 %
	>>>	49	A subgroup A1	98 %
----- Total per sample: n = 50 ----- Success: 98 % -----				

Total success: 98 %

(705) Rh D antigen (blood-donor)

E1 and S1 (0) not specified	>>>	1	Positive (RhD+)	1,2 %
(6) APR	>>>	3	Positive (RhD+)	3,5 %
(14) Bio-Rad	>>>	23	Positive (RhD+)	27 %
(40) Ortho Clinical Diagnostics	>>>	1	Positive (RhD+)	1,2 %
(64) Exbio Olomouc	>>>	2	Positive (RhD+)	2,4 %
(80) DiaMed	>>>	5	Positive (RhD+)	5,9 %
(159) Grifols	>>>	20	Positive (RhD+)	24 %
(172) Immucor	>>>	19	Positive (RhD+)	22 %
(173) Sanguin	>>>	4	Positive (RhD+)	4,7 %
(174) IVT Imuno	>>>	3	Positive (RhD+)	3,5 %
(203) ANTITOXIN	>>>	1	Positive (RhD+)	1,2 %
(999) another manufacturer	>>>	3	Positive (RhD+)	3,5 %
----- Total per sample: n = 85 ----- Success: 100 % -----				

E2 and S2 (0) not specified	>>>	1	Positive (RhD+)	1,2 %
(6) APR	>>>	3	Positive (RhD+)	3,5 %
(14) Bio-Rad	>>>	1	Not specified	1,2 %
	>>>	22	Positive (RhD+)	26 %
(40) Ortho Clinical Diagnostics	>>>	1	Positive (RhD+)	1,2 %
(64) Exbio Olomouc	>>>	2	Positive (RhD+)	2,4 %
(80) DiaMed	>>>	5	Positive (RhD+)	5,9 %
(159) Grifols	>>>	20	Positive (RhD+)	24 %
(172) Immucor	>>>	19	Positive (RhD+)	22 %
(173) Sanguin	>>>	4	Positive (RhD+)	4,7 %
(174) IVT Imuno	>>>	3	Positive (RhD+)	3,5 %
(203) ANTITOXIN	>>>	1	Positive (RhD+)	1,2 %

Summary statistics - qualitative results

(Groups: manufacturer of kit)

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Deadline: 03.06.2022

Test	Sample	Group	N	Result	N _{rel}
	E2 and S2 (999) another manufacturer	>>>	3	Positive (RhD+)	3,5 %
	Total per sample: n = 85		Success: 99 %		
	Total success: 99 %				

(709) Rh D antigen (recipient)

E1 and S1 (6) APR	>>>	3	Positive (RhD+)	2,2 %
(14) Bio-Rad	>>>	44	Positive (RhD+)	33 %
(40) Ortho Clinical Diagnostics	>>>	2	Positive (RhD+)	1,5 %
(50) Merck	>>>	1	Positive (RhD+)	0,75 %
(52) Dynex	>>>	2	Positive (RhD+)	1,5 %
(64) Exbio Olomouc	>>>	5	Positive (RhD+)	3,7 %
(80) DiaMed	>>>	9	Positive (RhD+)	6,7 %
(159) Grifols	>>>	34	Positive (RhD+)	25 %
(172) Immucor	>>>	18	Positive (RhD+)	13 %
(173) Sanguin	>>>	5	Positive (RhD+)	3,7 %
(174) IVT Imuno	>>>	6	Positive (RhD+)	4,5 %
(203) ANTITOXIN	>>>	1	Positive (RhD+)	0,75 %
(999) another manufacturer	>>>	4	Positive (RhD+)	3,0 %
Total per sample: n = 134		Success: 100 %		
Total success: 99 %				
E2 and S2 (6) APR	>>>	3	Positive (RhD+)	2,2 %
(14) Bio-Rad	>>>	1	Not specified	0,75 %
	>>>	43	Positive (RhD+)	32 %
(40) Ortho Clinical Diagnostics	>>>	2	Positive (RhD+)	1,5 %
(50) Merck	>>>	1	Positive (RhD+)	0,75 %
(52) Dynex	>>>	2	Positive (RhD+)	1,5 %
(64) Exbio Olomouc	>>>	5	Positive (RhD+)	3,7 %
(80) DiaMed	>>>	9	Positive (RhD+)	6,7 %
(159) Grifols	>>>	34	Positive (RhD+)	25 %
(172) Immucor	>>>	18	Positive (RhD+)	13 %
(173) Sanguin	>>>	5	Positive (RhD+)	3,7 %
(174) IVT Imuno	>>>	6	Positive (RhD+)	4,5 %
(203) ANTITOXIN	>>>	1	Positive (RhD+)	0,75 %
(999) another manufacturer	>>>	4	Positive (RhD+)	3,0 %
Total per sample: n = 134		Success: 99 %		
Total success: 99 %				

(715) Antigen C

E1 and S1 (6) APR	>>>	1	Positive	1,4 %
(14) Bio-Rad	>>>	29	Positive	40 %
(50) Merck	>>>	1	Positive	1,4 %
(64) Exbio Olomouc	>>>	1	Positive	1,4 %
(80) DiaMed	>>>	4	Positive	5,5 %
(159) Grifols	>>>	18	Positive	25 %
(172) Immucor	>>>	13	Positive	18 %
(173) Sanguin	>>>	2	Positive	2,7 %
(174) IVT Imuno	>>>	1	Positive	1,4 %
(203) ANTITOXIN	>>>	2	Positive	2,7 %
(999) another manufacturer	>>>	1	Positive	1,4 %
Total per sample: n = 73		Success: 100 %		
E2 and S2 (6) APR	>>>	1	Positive	1,4 %
(14) Bio-Rad	>>>	1	Not specified	1,4 %
	>>>	28	Positive	38 %
(50) Merck	>>>	1	Positive	1,4 %
(64) Exbio Olomouc	>>>	1	Positive	1,4 %
(80) DiaMed	>>>	4	Positive	5,5 %
(159) Grifols	>>>	18	Positive	25 %
(172) Immucor	>>>	13	Positive	18 %
(173) Sanguin	>>>	2	Positive	2,7 %
(174) IVT Imuno	>>>	1	Positive	1,4 %
(203) ANTITOXIN	>>>	2	Positive	2,7 %
(999) another manufacturer	>>>	1	Positive	1,4 %
Total per sample: n = 73		Success: 99 %		
Total success: 99 %				

(716) Antigen c

E1 and S1 (6) APR	>>>	1	Negative	1,4 %
(14) Bio-Rad	>>>	29	Negative	40 %
(50) Merck	>>>	1	Negative	1,4 %
(64) Exbio Olomouc	>>>	1	Negative	1,4 %
(80) DiaMed	>>>	4	Negative	5,5 %

Test		N	Result	N _{rel}
Sample	Group			
E1 and S1 (159)	Grifols	>>> 18	Negative	25 %
	(172) Immucor	>>> 13	Negative	18 %
	(173) Sanguin	>>> 2	Negative	2,7 %
	(174) IVT Imuno	>>> 1	Negative	1,4 %
	(203) ANTITOXIN	>>> 2	Negative	2,7 %
	(999) another manufacturer	>>> 1	Negative	1,4 %
	Total per sample: n = 73		Success: 100 %	
E2 and S2 (6) APR	(14) Bio-Rad	>>> 1	Positive	1,4 %
			1 Not specified	1,4 %
		>>> 28	Positive	38 %
	(50) Merck	>>> 1	Positive	1,4 %
	(64) Exbio Olomouc	>>> 1	Positive	1,4 %
	(80) DiaMed	>>> 4	Positive	5,5 %
	(159) Grifols	>>> 18	Positive	25 %
	(172) Immucor	>>> 13	Positive	18 %
	(173) Sanguin	>>> 2	Positive	2,7 %
	(174) IVT Imuno	>>> 1	Positive	1,4 %
	(203) ANTITOXIN	>>> 2	Positive	2,7 %
	(999) another manufacturer	>>> 1	Positive	1,4 %
	Total per sample: n = 73		Success: 99 %	
Total success: 99 %				

(717) Antigen Cw

E1 and S1 (6) APR	(14) Bio-Rad	>>> 19	Negative	32 %	
	(50) Merck	>>> 1	Negative	1,7 %	
	(52) Dynex	>>> 1	Negative	1,7 %	
	(64) Exbio Olomouc	>>> 1	Negative	1,7 %	
	(80) DiaMed	>>> 1	Negative	1,7 %	
	(159) Grifols	>>> 18	Negative	30 %	
	(172) Immucor	>>> 12	Negative	20 %	
	(173) Sanguin	>>> 3	Negative	5,0 %	
	(174) IVT Imuno	>>> 1	Negative	1,7 %	
	(203) ANTITOXIN	>>> 2	Negative	3,3 %	
	Total per sample: n = 60		Success: 100 %		
	E2 and S2 (6) APR	(14) Bio-Rad	>>> 1	Negative	1,7 %
			1 Not specified	1,7 %	
		>>> 18	Negative	30 %	
(50) Merck		>>> 1	Negative	1,7 %	
(52) Dynex		>>> 1	Negative	1,7 %	
(64) Exbio Olomouc		>>> 1	Negative	1,7 %	
(80) DiaMed		>>> 1	Negative	1,7 %	
(159) Grifols		>>> 18	Negative	30 %	
(172) Immucor		>>> 12	Negative	20 %	
(173) Sanguin		>>> 3	Negative	5,0 %	
(174) IVT Imuno		>>> 1	Negative	1,7 %	
(203) ANTITOXIN		>>> 2	Negative	3,3 %	
Total per sample: n = 60		Success: 98 %			
Total success: 98 %					

(718) Antigen E

E1 and S1 (6) APR	(14) Bio-Rad	>>> 29	Negative	40 %	
	(50) Merck	>>> 1	Negative	1,4 %	
	(64) Exbio Olomouc	>>> 1	Negative	1,4 %	
	(80) DiaMed	>>> 4	Negative	5,5 %	
	(159) Grifols	>>> 18	Negative	25 %	
	(172) Immucor	>>> 13	Negative	18 %	
	(173) Sanguin	>>> 2	Negative	2,7 %	
	(174) IVT Imuno	>>> 1	Negative	1,4 %	
	(203) ANTITOXIN	>>> 2	Negative	2,7 %	
	(999) another manufacturer	>>> 1	Negative	1,4 %	
	Total per sample: n = 73		Success: 100 %		
	E2 and S2 (6) APR	(14) Bio-Rad	>>> 1	Negative	1,4 %
			1 Not specified	1,4 %	
		>>> 28	Negative	38 %	
(50) Merck		>>> 1	Negative	1,4 %	
(64) Exbio Olomouc		>>> 1	Negative	1,4 %	
(80) DiaMed		>>> 4	Negative	5,5 %	
(159) Grifols	>>> 18	Negative	25 %		

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Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (172)	Immucor	>>> 13	Negative	18 %
(173)	Sanguin	>>> 2	Negative	2,7 %
(174)	IVT Imuno	>>> 1	Negative	1,4 %
(203)	ANTITOXIN	>>> 2	Negative	2,7 %
(999)	another manufacturer	>>> 1	Negative	1,4 %
Total per sample: n = 73		Success: 99 %		
Total success: 99 %				
(719) Antigen e				
E1 and S1 (6)	APR	>>> 1	Positive	1,4 %
(14)	Bio-Rad	>>> 28	Positive	38 %
(17)	Biogema	>>> 1	Positive	1,4 %
(50)	Merck	>>> 1	Positive	1,4 %
(64)	Exbio Olomouc	>>> 1	Positive	1,4 %
(80)	DiaMed	>>> 4	Positive	5,5 %
(159)	Grifols	>>> 18	Positive	25 %
(172)	Immucor	>>> 13	Positive	18 %
(173)	Sanguin	>>> 2	Positive	2,7 %
(174)	IVT Imuno	>>> 1	Positive	1,4 %
(203)	ANTITOXIN	>>> 2	Positive	2,7 %
(999)	another manufacturer	>>> 1	Positive	1,4 %
Total per sample: n = 73		Success: 100 %		
E2 and S2 (6)	APR	>>> 1	Positive	1,4 %
(14)	Bio-Rad	>>> 1	Not specified	1,4 %
		>>> 27	Positive	37 %
(17)	Biogema	>>> 1	Positive	1,4 %
(50)	Merck	>>> 1	Positive	1,4 %
(64)	Exbio Olomouc	>>> 1	Positive	1,4 %
(80)	DiaMed	>>> 4	Positive	5,5 %
(159)	Grifols	>>> 18	Positive	25 %
(172)	Immucor	>>> 13	Positive	18 %
(173)	Sanguin	>>> 2	Positive	2,7 %
(174)	IVT Imuno	>>> 1	Positive	1,4 %
(203)	ANTITOXIN	>>> 2	Positive	2,7 %
(999)	another manufacturer	>>> 1	Positive	1,4 %
Total per sample: n = 73		Success: 99 %		
Total success: 99 %				
(720) Antigen K				
E1 and S1 (6)	APR	>>> 1	Negative	1,3 %
(14)	Bio-Rad	>>> 26	Negative	34 %
(50)	Merck	>>> 1	Negative	1,3 %
(80)	DiaMed	>>> 4	Negative	5,3 %
(159)	Grifols	>>> 22	Negative	29 %
(172)	Immucor	>>> 13	Negative	17 %
(173)	Sanguin	>>> 3	Negative	3,9 %
(174)	IVT Imuno	>>> 3	Negative	3,9 %
(203)	ANTITOXIN	>>> 1	Negative	1,3 %
(999)	another manufacturer	>>> 1	Negative	1,3 %
		>>> 1	Positive	1,3 %
Total per sample: n = 76		Success: 99 %		
E2 and S2 (6)	APR	>>> 1	Negative	1,3 %
(14)	Bio-Rad	>>> 1	Not specified	1,3 %
		>>> 25	Negative	33 %
(50)	Merck	>>> 1	Negative	1,3 %
(80)	DiaMed	>>> 4	Negative	5,3 %
(159)	Grifols	>>> 22	Negative	29 %
(172)	Immucor	>>> 13	Negative	17 %
(173)	Sanguin	>>> 3	Negative	3,9 %
(174)	IVT Imuno	>>> 3	Negative	3,9 %
(203)	ANTITOXIN	>>> 1	Negative	1,3 %
(999)	another manufacturer	>>> 2	Negative	2,6 %
Total per sample: n = 76		Success: 99 %		
Total success: 97 %				
(721) Antigen k				
E1 and S1 (6)	APR	>>> 1	Positive	2,4 %
(14)	Bio-Rad	>>> 13	Positive	32 %
(64)	Exbio Olomouc	>>> 4	Positive	9,8 %
(80)	DiaMed	>>> 2	Positive	4,9 %

Test

Sample	Group	N	Result	N _{rel}
E1 and S1 (159)	Grifols	>>> 4	Positive	9,8 %
(172)	Immucor	>>> 5	Positive	12 %
(173)	Sanguin	>>> 7	Positive	17 %
(203)	ANTITOXIN	>>> 4	Positive	9,8 %
(999)	another manufacturer	>>> 1	Positive	2,4 %
Total per sample: n = 41		Success: 100 %	-	-
E2 and S2 (6)	APR	>>> 1	Positive	2,4 %
(14)	Bio-Rad	>>> 13	Positive	32 %
(64)	Exbio Olomouc	>>> 4	Positive	9,8 %
(80)	DiaMed	>>> 2	Positive	4,9 %
(159)	Grifols	>>> 4	Positive	9,8 %
(172)	Immucor	>>> 5	Positive	12 %
(173)	Sanguin	>>> 7	Positive	17 %
(203)	ANTITOXIN	>>> 4	Positive	9,8 %
(999)	another manufacturer	>>> 1	Positive	2,4 %
Total per sample: n = 41		Success: 100 %	-	-
Total success: 100 %				

(722) Antigen M

E1 and S1 (14)	Bio-Rad	>>> 9	Negative	25 %
(64)	Exbio Olomouc	>>> 2	Negative	5,6 %
(80)	DiaMed	>>> 1	Negative	2,8 %
(159)	Grifols	>>> 4	Negative	11 %
(172)	Immucor	>>> 14	Negative	39 %
(173)	Sanguin	>>> 2	Negative	5,6 %
(183)	Immunodiagnostic Systems	>>> 1	Negative	2,8 %
(203)	ANTITOXIN	>>> 3	Negative	8,3 %
Total per sample: n = 36		Success: 100 %	-	-
E2 and S2 (14)	Bio-Rad	>>> 9	Positive	25 %
(64)	Exbio Olomouc	>>> 2	Positive	5,6 %
(80)	DiaMed	>>> 1	Positive	2,8 %
(159)	Grifols	>>> 4	Positive	11 %
(172)	Immucor	>>> 14	Positive	39 %
(173)	Sanguin	>>> 2	Positive	5,6 %
(183)	Immunodiagnostic Systems	>>> 1	Positive	2,8 %
(203)	ANTITOXIN	>>> 3	Positive	8,3 %
Total per sample: n = 36		Success: 100 %	-	-
Total success: 100 %				

(723) Antigen N

E1 and S1 (14)	Bio-Rad	>>> 10	Positive	30 %
(64)	Exbio Olomouc	>>> 1	Positive	3,0 %
(80)	DiaMed	>>> 1	Positive	3,0 %
(159)	Grifols	>>> 4	Positive	12 %
(172)	Immucor	>>> 11	Positive	33 %
(173)	Sanguin	>>> 2	Positive	6,1 %
(183)	Immunodiagnostic Systems	>>> 1	Positive	3,0 %
(203)	ANTITOXIN	>>> 3	Positive	9,1 %
Total per sample: n = 33		Success: 100 %	-	-
E2 and S2 (14)	Bio-Rad	>>> 10	Negative	30 %
(64)	Exbio Olomouc	>>> 1	Negative	3,0 %
(80)	DiaMed	>>> 1	Negative	3,0 %
(159)	Grifols	>>> 4	Negative	12 %
(172)	Immucor	>>> 11	Negative	33 %
(173)	Sanguin	>>> 2	Negative	6,1 %
(183)	Immunodiagnostic Systems	>>> 1	Negative	3,0 %
(203)	ANTITOXIN	>>> 3	Negative	9,1 %
Total per sample: n = 33		Success: 100 %	-	-
Total success: 100 %				

(724) Antigen S

E1 and S1 (14)	Bio-Rad	>>> 12	Positive	31 %
(50)	Merck	>>> 1	Positive	2,6 %
(52)	Dynex	>>> 2	Positive	5,1 %
(64)	Exbio Olomouc	>>> 1	Positive	2,6 %
(80)	DiaMed	>>> 1	Positive	2,6 %
(159)	Grifols	>>> 6	Positive	15 %
(172)	Immucor	>>> 7	Positive	18 %
(173)	Sanguin	>>> 4	Positive	10 %
(174)	IVT Imuno	>>> 2	Positive	5,1 %

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Test		N	Result	N _{rel}
Sample	Group			
E1 and S1 (203) ANTI TOXIN	>>>	3	Positive	7,7 %
Total per sample: n = 39		Success: 100 %		
E2 and S2 (14) Bio-Rad	>>>	12	Negative	31 %
(50) Merck	>>>	1	Negative	2,6 %
(52) Dynex	>>>	2	Negative	5,1 %
(64) Exbio Olomouc	>>>	1	Negative	2,6 %
(80) DiaMed	>>>	1	Negative	2,6 %
(159) Grifols	>>>	6	Negative	15 %
(172) Immucor	>>>	7	Negative	18 %
(173) Sanguin	>>>	4	Negative	10 %
(174) IVT Imuno	>>>	2	Negative	5,1 %
(203) ANTI TOXIN	>>>	3	Negative	7,7 %
Total per sample: n = 39		Success: 100 %		
Total success: 100 %				
(725) Antigen s				
E1 and S1 (14) Bio-Rad	>>>	11	Positive	29 %
(52) Dynex	>>>	1	Positive	2,6 %
(64) Exbio Olomouc	>>>	2	Positive	5,3 %
(80) DiaMed	>>>	1	Positive	2,6 %
(159) Grifols	>>>	6	Positive	16 %
(172) Immucor	>>>	7	Positive	18 %
(173) Sanguin	>>>	5	Positive	13 %
(174) IVT Imuno	>>>	2	Positive	5,3 %
(203) ANTI TOXIN	>>>	3	Positive	7,9 %
Total per sample: n = 38		Success: 100 %		
E2 and S2 (14) Bio-Rad	>>>	11	Positive	29 %
(52) Dynex	>>>	1	Positive	2,6 %
(64) Exbio Olomouc	>>>	2	Positive	5,3 %
(80) DiaMed	>>>	1	Positive	2,6 %
(159) Grifols	>>>	6	Positive	16 %
(172) Immucor	>>>	7	Positive	18 %
(173) Sanguin	>>>	5	Positive	13 %
(174) IVT Imuno	>>>	2	Positive	5,3 %
(203) ANTI TOXIN	>>>	3	Positive	7,9 %
Total per sample: n = 38		Success: 100 %		
Total success: 100 %				
(726) Antigen P1				
E1 and S1 (14) Bio-Rad	>>>	7	Positive	27 %
(64) Exbio Olomouc	>>>	2	Positive	7,7 %
(80) DiaMed	>>>	1	Positive	3,8 %
(159) Grifols	>>>	1	Positive	3,8 %
(172) Immucor	>>>	8	Positive	31 %
(173) Sanguin	>>>	5	Positive	19 %
(174) IVT Imuno	>>>	1	Positive	3,8 %
(203) ANTI TOXIN	>>>	1	Positive	3,8 %
Total per sample: n = 26		Success: 100 %		
E2 and S2 (14) Bio-Rad	>>>	7	Positive	27 %
(64) Exbio Olomouc	>>>	2	Positive	7,7 %
(80) DiaMed	>>>	1	Positive	3,8 %
(159) Grifols	>>>	1	Positive	3,8 %
(172) Immucor	>>>	8	Positive	31 %
(173) Sanguin	>>>	5	Positive	19 %
(174) IVT Imuno	>>>	1	Positive	3,8 %
(203) ANTI TOXIN	>>>	1	Positive	3,8 %
Total per sample: n = 26		Success: 100 %		
Total success: 100 %				
(727) Antigen Fya				
E1 and S1 (14) Bio-Rad	>>>	14	Positive	36 %
(64) Exbio Olomouc	>>>	2	Positive	5,1 %
(80) DiaMed	>>>	1	Positive	2,6 %
(159) Grifols	>>>	7	Positive	18 %
(172) Immucor	>>>	7	Positive	18 %
(173) Sanguin	>>>	5	Positive	13 %
(203) ANTI TOXIN	>>>	3	Positive	7,7 %
Total per sample: n = 39		Success: 100 %		
E2 and S2 (14) Bio-Rad	>>>	14	Negative	36 %
(64) Exbio Olomouc	>>>	2	Negative	5,1 %

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Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (80) DiaMed	>>>	1	Negative	2,6 %
(159) Grifols	>>>	7	Negative	18 %
(172) Immucor	>>>	7	Negative	18 %
(173) Sanguin	>>>	5	Negative	13 %
(203) ANTITOXIN	>>>	3	Negative	7,7 %
Total per sample: n = 39		Success: 100 %		
Total success: 100 %				
(728) Antigen Fyb				
E1 and S1 (14) Bio-Rad	>>>	14	Positive	36 %
(64) Exbio Olomouc	>>>	2	Positive	5,1 %
(80) DiaMed	>>>	1	Positive	2,6 %
(159) Grifols	>>>	7	Positive	18 %
(172) Immucor	>>>	7	Positive	18 %
(173) Sanguin	>>>	5	Positive	13 %
(203) ANTITOXIN	>>>	3	Positive	7,7 %
Total per sample: n = 39		Success: 100 %		
E2 and S2 (14) Bio-Rad	>>>	14	Positive	36 %
(64) Exbio Olomouc	>>>	2	Positive	5,1 %
(80) DiaMed	>>>	1	Positive	2,6 %
(159) Grifols	>>>	7	Positive	18 %
(172) Immucor	>>>	7	Positive	18 %
(173) Sanguin	>>>	5	Positive	13 %
(203) ANTITOXIN	>>>	3	Positive	7,7 %
Total per sample: n = 39		Success: 100 %		
Total success: 100 %				
(729) Antigen Jka				
E1 and S1 (14) Bio-Rad	>>>	12	Negative	30 %
(50) Merck	>>>	1	Negative	2,5 %
(52) Dynex	>>>	2	Negative	5,0 %
(64) Exbio Olomouc	>>>	1	Negative	2,5 %
(80) DiaMed	>>>	1	Negative	2,5 %
(159) Grifols	>>>	7	Negative	18 %
(172) Immucor	>>>	8	Negative	20 %
(173) Sanguin	>>>	4	Negative	10 %
		1	Positive	2,5 %
(203) ANTITOXIN	>>>	3	Negative	7,5 %
Total per sample: n = 40		Success: 98 %		
E2 and S2 (14) Bio-Rad	>>>	12	Negative	30 %
(50) Merck	>>>	1	Negative	2,5 %
(52) Dynex	>>>	2	Negative	5,0 %
(64) Exbio Olomouc	>>>	1	Negative	2,5 %
(80) DiaMed	>>>	1	Negative	2,5 %
(159) Grifols	>>>	7	Negative	18 %
(172) Immucor	>>>	8	Negative	20 %
(173) Sanguin	>>>	4	Negative	10 %
		1	Positive	2,5 %
(203) ANTITOXIN	>>>	3	Negative	7,5 %
Total per sample: n = 40		Success: 98 %		
Total success: 98 %				
(730) Antigen Jkb				
E1 and S1 (14) Bio-Rad	>>>	11	Positive	28 %
(50) Merck	>>>	1	Positive	2,5 %
(52) Dynex	>>>	2	Positive	5,0 %
(64) Exbio Olomouc	>>>	1	Positive	2,5 %
(80) DiaMed	>>>	1	Positive	2,5 %
(159) Grifols	>>>	7	Positive	18 %
(172) Immucor	>>>	8	Positive	20 %
(173) Sanguin	>>>	1	Negative	2,5 %
		5	Positive	13 %
(203) ANTITOXIN	>>>	3	Positive	7,5 %
Total per sample: n = 40		Success: 98 %		
E2 and S2 (14) Bio-Rad	>>>	11	Positive	28 %
(50) Merck	>>>	1	Positive	2,5 %
(52) Dynex	>>>	2	Positive	5,0 %
(64) Exbio Olomouc	>>>	1	Positive	2,5 %
(80) DiaMed	>>>	1	Positive	2,5 %
(159) Grifols	>>>	7	Positive	18 %

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Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (172)	Immucor	>>> 8	Positive	20 %
(173)	Sanguin	>>> 1	Negative	2,5 %
		>>> 5	Positive	13 %
(203)	ANTITOXIN	>>> 3	Positive	7,5 %
Total per sample: n = 40		Success: 98 %		
Total success: 98 %				
(731) Antigen Lua				
E1 and S1 (14)	Bio-Rad	>>> 12	Negative	48 %
(64)	Exbio Olomouc	>>> 2	Negative	8,0 %
(80)	DiaMed	>>> 2	Negative	8,0 %
(159)	Grifols	>>> 3	Negative	12 %
(172)	Immucor	>>> 4	Negative	16 %
(173)	Sanguin	>>> 1	Negative	4,0 %
(203)	ANTITOXIN	>>> 1	Negative	4,0 %
Total per sample: n = 25		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 12	Negative	48 %
(64)	Exbio Olomouc	>>> 2	Negative	8,0 %
(80)	DiaMed	>>> 2	Negative	8,0 %
(159)	Grifols	>>> 3	Negative	12 %
(172)	Immucor	>>> 4	Negative	16 %
(173)	Sanguin	>>> 1	Negative	4,0 %
(203)	ANTITOXIN	>>> 1	Negative	4,0 %
Total per sample: n = 25		Success: 100 %		
Total success: 100 %				
(732) Antigen Lub				
E1 and S1 (0)	not specified	>>> 1	Positive	3,8 %
(14)	Bio-Rad	>>> 10	Positive	38 %
(64)	Exbio Olomouc	>>> 1	Positive	3,8 %
(80)	DiaMed	>>> 2	Positive	7,7 %
(159)	Grifols	>>> 3	Positive	12 %
(172)	Immucor	>>> 4	Positive	15 %
(173)	Sanguin	>>> 1	Positive	3,8 %
(203)	ANTITOXIN	>>> 3	Positive	12 %
(999)	another manufacturer	>>> 1	Positive	3,8 %
Total per sample: n = 26		Success: 100 %		
E2 and S2 (0)	not specified	>>> 1	Positive	3,8 %
(14)	Bio-Rad	>>> 10	Positive	38 %
(64)	Exbio Olomouc	>>> 1	Positive	3,8 %
(80)	DiaMed	>>> 2	Positive	7,7 %
(159)	Grifols	>>> 3	Positive	12 %
(172)	Immucor	>>> 4	Positive	15 %
(173)	Sanguin	>>> 1	Positive	3,8 %
(203)	ANTITOXIN	>>> 3	Positive	12 %
(999)	another manufacturer	>>> 1	Positive	3,8 %
Total per sample: n = 26		Success: 100 %		
Total success: 100 %				
(733) Antigen Lea				
E1 and S1 (0)	not specified	>>> 1	Negative	3,4 %
(14)	Bio-Rad	>>> 10	Negative	34 %
(50)	Merck	>>> 1	Negative	3,4 %
(64)	Exbio Olomouc	>>> 1	Negative	3,4 %
(80)	DiaMed	>>> 1	Negative	3,4 %
(159)	Grifols	>>> 2	Negative	6,9 %
(172)	Immucor	>>> 9	Negative	31 %
(173)	Sanguin	>>> 2	Negative	6,9 %
(174)	IVT Imuno	>>> 1	Negative	3,4 %
(203)	ANTITOXIN	>>> 1	Negative	3,4 %
Total per sample: n = 29		Success: 100 %		
E2 and S2 (0)	not specified	>>> 1	Negative	3,4 %
(14)	Bio-Rad	>>> 10	Negative	34 %
(50)	Merck	>>> 1	Negative	3,4 %
(64)	Exbio Olomouc	>>> 1	Negative	3,4 %
(80)	DiaMed	>>> 1	Negative	3,4 %
(159)	Grifols	>>> 2	Negative	6,9 %
(172)	Immucor	>>> 9	Negative	31 %
(173)	Sanguin	>>> 2	Negative	6,9 %
(174)	IVT Imuno	>>> 1	Negative	3,4 %

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Test

Sample	Group	N	Result	N _{rel}
E2 and S2 (203) ANTITOXIN		>>> 1	Negative	3,4 %
Total per sample: n = 29		Success: 100 %		
Total success: 100 %				

(734) Antigen Leb

E1 and S1 (0) not specified		>>> 1	Positive	3,4 %
(14) Bio-Rad		>>> 10	Positive	34 %
(50) Merck		>>> 1	Positive	3,4 %
(64) Exbio Olomouc		>>> 1	Positive	3,4 %
(80) DiaMed		>>> 1	Positive	3,4 %
(159) Grifols		>>> 2	Positive	6,9 %
(172) Immucor		>>> 8	Positive	28 %
(173) Sanguin		>>> 2	Positive	6,9 %
(174) IVT Imuno		>>> 1	Positive	3,4 %
(203) ANTITOXIN		>>> 2	Positive	6,9 %
Total per sample: n = 29		Success: 100 %		
E2 and S2 (0) not specified		>>> 1	Positive	3,4 %
(14) Bio-Rad		>>> 10	Positive	34 %
(50) Merck		>>> 1	Positive	3,4 %
(64) Exbio Olomouc		>>> 1	Positive	3,4 %
(80) DiaMed		>>> 1	Positive	3,4 %
(159) Grifols		>>> 2	Positive	6,9 %
(172) Immucor		>>> 8	Positive	28 %
(173) Sanguin		>>> 2	Positive	6,9 %
(174) IVT Imuno		>>> 1	Negative	3,4 %
(203) ANTITOXIN		>>> 2	Positive	6,9 %
Total per sample: n = 29		Success: 97 %		
Total success: 97 %				

(737) Direct Coombs (antiglobulin) test

E1 and S1 (0) not specified		>>> 1	Negative	0,83 %
(6) APR		>>> 1	Negative	0,83 %
(14) Bio-Rad		>>> 51	Negative	43 %
(40) Ortho Clinical Diagnostics		>>> 2	Negative	1,7 %
(64) Exbio Olomouc		>>> 2	Negative	1,7 %
(80) DiaMed		>>> 23	Negative	19 %
(159) Grifols		>>> 38	Negative	32 %
			1 Positive	0,83 %
(174) IVT Imuno		>>> 1	Negative	0,83 %
Total per sample: n = 120		Success: 99 %		
E2 and S2 (0) not specified		>>> 1	Negative	0,83 %
(6) APR		>>> 1	Negative	0,83 %
(14) Bio-Rad			1 Not specified	0,83 %
		>>> 50	Negative	42 %
(40) Ortho Clinical Diagnostics		>>> 2	Negative	1,7 %
(64) Exbio Olomouc		>>> 2	Negative	1,7 %
(80) DiaMed		>>> 23	Negative	19 %
(159) Grifols		>>> 38	Negative	32 %
			1 Positive	0,83 %
(174) IVT Imuno		>>> 1	Negative	0,83 %
Total per sample: n = 120		Success: 98 %		
Total success: 98 %				

(741) Antibody screening (IAT, blood donor)

E1 and S1 (0) not specified		>>> 1	Positive	1,3 %
(6) APR		>>> 3	Positive	3,8 %
(14) Bio-Rad		>>> 28	Positive	35 %
(40) Ortho Clinical Diagnostics		>>> 1	Positive	1,3 %
(64) Exbio Olomouc		>>> 1	Positive	1,3 %
(80) DiaMed		>>> 13	Positive	16 %
(159) Grifols		>>> 20	Positive	25 %
(172) Immucor		>>> 13	Positive	16 %
Total per sample: n = 80		Success: 100 %		
E2 and S2 (0) not specified		>>> 1	Positive	1,3 %
(6) APR		>>> 3	Positive	3,8 %
(14) Bio-Rad			1 Not specified	1,3 %
		>>> 27	Positive	34 %
(40) Ortho Clinical Diagnostics		>>> 1	Positive	1,3 %
(64) Exbio Olomouc		>>> 1	Positive	1,3 %
(80) DiaMed		>>> 13	Positive	16 %

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Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (159)	Grifols	>>> 20	Positive	25 %
(172)	Immucor	>>> 13	Positive	16 %
Total per sample: n = 80		Success: 99 %		
Total success: 99 %				
(743) Antibody screening (IAT, recipient)				
E1 and S1 (6)	APR	>>> 2	Positive	1,6 %
(14)	Bio-Rad	>>> 55	Positive	44 %
(40)	Ortho Clinical Diagnostics	>>> 2	Positive	1,6 %
(80)	DiaMed	>>> 22	Positive	18 %
(159)	Grifols	>>> 39	Positive	31 %
(172)	Immucor	>>> 5	Positive	4,0 %
Total per sample: n = 125		Success: 100 %		
E2 and S2 (6)	APR	>>> 2	Positive	1,6 %
(14)	Bio-Rad	>>> 1	Not specified	0,80 %
		>>> 54	Positive	43 %
(40)	Ortho Clinical Diagnostics	>>> 2	Positive	1,6 %
(80)	DiaMed	>>> 22	Positive	18 %
(159)	Grifols	>>> 39	Positive	31 %
(172)	Immucor	>>> 5	Positive	4,0 %
Total per sample: n = 125		Success: 99 %		
Total success: 99 %				
(745) Antibody screening (IAT, pregnant)				
E1 and S1 (6)	APR	>>> 2	Positive	1,9 %
(14)	Bio-Rad	>>> 49	Positive	46 %
(40)	Ortho Clinical Diagnostics	>>> 2	Positive	1,9 %
(64)	Exbio Olomouc	>>> 1	Positive	0,93 %
(80)	DiaMed	>>> 16	Positive	15 %
(159)	Grifols	>>> 32	Positive	30 %
(172)	Immucor	>>> 5	Positive	4,7 %
Total per sample: n = 107		Success: 100 %		
E2 and S2 (6)	APR	>>> 2	Positive	1,9 %
(14)	Bio-Rad	>>> 1	Not specified	0,93 %
		>>> 48	Positive	45 %
(40)	Ortho Clinical Diagnostics	>>> 2	Positive	1,9 %
(64)	Exbio Olomouc	>>> 1	Positive	0,93 %
(80)	DiaMed	>>> 16	Positive	15 %
(159)	Grifols	>>> 32	Positive	30 %
(172)	Immucor	>>> 5	Positive	4,7 %
Total per sample: n = 107		Success: 99 %		
Total success: 99 %				
(747) Antibody screening (enzyme test)				
E1 and S1 (14)	Bio-Rad	>>> 48	Positive	49 %
(40)	Ortho Clinical Diagnostics	>>> 2	Positive	2,0 %
(80)	DiaMed	>>> 17	Positive	17 %
(159)	Grifols	>>> 30	Positive	31 %
(172)	Immucor	>>> 1	Positive	1,0 %
Total per sample: n = 98		Success: 100 %		
E2 and S2 (14)	Bio-Rad	> 1	Not specified	1,0 %
		> 18	Negative	18 %
		>>> 29	Positive	30 %
(40)	Ortho Clinical Diagnostics	> 2	Negative	2,0 %
(80)	DiaMed	> 4	Negative	4,1 %
		>>> 13	Positive	13 %
(159)	Grifols	>>> 30	Positive	31 %
(172)	Immucor	>>> 1	Positive	1,0 %
Total per sample: n = 98		Success: 99 %		
Total success: 99 %				
(750) Antibody identification				
E1 and S1 (0)	not specified	> 3	anti-c	6,4 %
		> 42	anti-c; anti-E	89 %
		>>> 2	anti-c; anti-E; anti-Wra	4,3 %
Total per sample: n = 47		Success: 94 %		
E2 and S2 (0)	not specified	> 41	anti-K; anti-S	87 %
		>>> 3	anti-K; anti-S; anti-Wra	6,4 %
		>>> 3	anti-S	6,4 %
Total per sample: n = 47		Success: 94 %		
Total success: 91 %				

Test		N	Result	N _{rel}
Sample	Group			
(752) Antibody titre, Sample 1: 1st antibody				
E1 and S1 (0) not specified		± 1	titre 4	2,9 %
		± 8	titre 8	24 %
		± 10	titre 16	29 %
		± 3	titre 32	8,8 %
		± 8	titre 64	24 %
		± 4	titre 128	12 %
Total per sample: n = 34		Success (only evaluated results): not assessed		
(753) Antibody titre, Sample 1: 2nd antibody				
E1 and S1 (0) not specified		± 1	titre 0 (not measurable)	4,5 %
		± 4	titre 256	18 %
		± 3	titre 512	14 %
		± 4	titre 32	18 %
		± 7	titre 64	32 %
		± 3	titre 128	14 %
Total per sample: n = 22		Success (only evaluated results): not assessed		
(754) Antibody titre, Sample 1: 3rd antibody				
E1 and S1 (0) not specified		± 1	titre 8	50 %
		± 1	titre 32	50 %
Total per sample: n = 2		Success (only evaluated results): not assessed		
(756) Antibody titre, Sample 2: 1st antibody				
E2 and S2 (0) not specified		± 1	titre 0 (not measurable)	3,6 %
		± 1	titre 1	3,6 %
		± 12	titre 8	43 %
		± 11	titre 16	39 %
		± 3	titre 32	11 %
Total per sample: n = 28		Success (only evaluated results): not assessed		
(757) Antibody titre, Sample 2: 2nd antibody				
E2 and S2 (0) not specified		± 6	titre 1	18 %
		± 6	titre 2	18 %
		± 8	titre 4	24 %
		± 10	titre 8	29 %
		± 3	titre 32	8,8 %
		± 1	titre 128	2,9 %
Total per sample: n = 34		Success (only evaluated results): not assessed		
(758) Antibody titre, Sample 2: 3rd antibody				
E2 and S2 (0) not specified		± 1	titre 1	33 %
		± 1	titre 4	33 %
		± 1	titre 8	33 %
Total per sample: n = 3		Success (only evaluated results): not assessed		
Set 3				
(760) Crossmatch				
S1	All results	>>> 117	Crossmatch successful	100 %
Total per sample: n = 117		Success: 100 %		
S2	All results	>>> 117	Crossmatch successful	100 %
Total per sample: n = 117		Success: 100 %		
Total success: 100 %				
(761) Crossmatch (segment K1)				
S1	(0) not specified	>>> 117	Positive test	100 %
Total per sample: n = 117		Success: 100 %		
S2	(0) not specified	> 36	Negative test	31 %
		>>> 81	Positive test	69 %
Total per sample: n = 117		Success: 100 %		
Total success: 100 %				
(762) Serve transfusion product (segment K1)				
S1	(0) not specified	± 114	Impossible, risk of haemolysis	97 %
		± 3	Decision depends on results of other tests not performed in our laboratory	2,6 %
Total per sample: n = 117		Success (only evaluated results): not assessed		
S2	(0) not specified	± 83	Impossible, risk of haemolysis	71 %
		± 30	Decision depends on results of other tests not performed in our laboratory	26 %
		± 3	Only if more suitable products are not available	2,6 %
		± 1	Possible	0,85 %
Total per sample: n = 117		Success (only evaluated results): not assessed		

Summary statistics - qualitative results

(Groups: manufacturer of kit)

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Deadline: 03.06.2022

Test		N	Result	N _{rel}
Sample	Group			
(764) Crossmatch (segment K2)				
S1	(0) not specified	>>> 117	Negative test	100 %
----- Total per sample: n = 117		----- Success: 100 %		
S2	(0) not specified	>>> 117	Positive test	100 %
----- Total per sample: n = 117		----- Success: 100 %		
Total success: 100 %				
(765) Serve transfusion product (segment K2)				
S1	(0) not specified	± 63	Decision depends on results of other tests not performed in our laboratory	54 %
		± 40	Only if more suitable products are not available	34 %
		± 14	Possible	12 %
----- Total per sample: n = 117		----- Success (only evaluated results): not assessed		
S2	(0) not specified	± 114	Impossible, risk of haemolysis	97 %
		± 3	Decision depends on results of other tests not performed in our laboratory	2.6 %
----- Total per sample: n = 117		----- Success (only evaluated results): not assessed		
st_kl	End of report			Printed: 09.06.2022