

EQA round: IH3/18 - Blood Group Serology

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 of samples 1 and 2

(700) AB0 blood group

E1 and S1 (14) Bio-Rad		1	Not specified	0,54 %
		>>>	53 Blood group: B	29 %
(40) Ortho Clinical Diagnostics		>>>	9 Blood group: B	4,9 %
(52) Dynex		>>>	2 Blood group: B	1,1 %
(64) Exbio Olomouc		>>>	13 Blood group: B	7,1 %
(80) DiaMed		>>>	16 Blood group: B	8,7 %
(159) Grifols			1 Blood group: 0	0,54 %
		>>>	31 Blood group: B	17 %
(171) Diagast		>>>	2 Blood group: B	1,1 %
(172) Immucor		>>>	34 Blood group: B	18 %
(173) Sanguin		>>>	8 Blood group: B	4,3 %
(174) IVT Imuno		>>>	7 Blood group: B	3,8 %
(183) Immunodiagnostic Systems		>>>	1 Blood group: B	0,54 %
(203) ANTITOXIN		>>>	2 Blood group: B	1,1 %
(999) another manufacturer		>>>	4 Blood group: B	2,2 %
Total per sample: n = 184		Success: 99 %		

E2 and S2 (14) Bio-Rad		>>>	54 Blood group: 0	29 %
(40) Ortho Clinical Diagnostics		>>>	9 Blood group: 0	4,9 %
(52) Dynex		>>>	2 Blood group: 0	1,1 %
(64) Exbio Olomouc		>>>	13 Blood group: 0	7,1 %
(80) DiaMed		>>>	16 Blood group: 0	8,7 %
(159) Grifols		>>>	31 Blood group: 0	17 %
			1 Blood group: B	0,54 %
(171) Diagast		>>>	2 Blood group: 0	1,1 %
(172) Immucor		>>>	34 Blood group: 0	18 %
(173) Sanguin		>>>	8 Blood group: 0	4,3 %
(174) IVT Imuno		>>>	7 Blood group: 0	3,8 %
(183) Immunodiagnostic Systems		>>>	1 Blood group: 0	0,54 %
(203) ANTITOXIN		>>>	2 Blood group: 0	1,1 %
(999) another manufacturer		>>>	4 Blood group: 0	2,2 %
Total per sample: n = 184		Success: 99 %		

Total success: 99 %

(705) Rh D antigen (blood-donor)

E1 and S1 (0) not specified		>>>	1 Negative (RhD-)	0,86 %
(6) APR		>>>	1 Negative (RhD-)	0,86 %
(14) Bio-Rad		>>>	30 Negative (RhD-)	26 %
(40) Ortho Clinical Diagnostics		>>>	4 Negative (RhD-)	3,4 %
(52) Dynex		>>>	2 Negative (RhD-)	1,7 %
(64) Exbio Olomouc		>>>	2 Negative (RhD-)	1,7 %
(80) DiaMed		>>>	10 Negative (RhD-)	8,6 %
(159) Grifols		>>>	20 Negative (RhD-)	17 %
(170) Biotest		>>>	1 Negative (RhD-)	0,86 %
(171) Diagast		>>>	3 Negative (RhD-)	2,6 %
(172) Immucor		>>>	30 Negative (RhD-)	26 %
(173) Sanguin		>>>	3 Negative (RhD-)	2,6 %
(174) IVT Imuno		>>>	4 Negative (RhD-)	3,4 %
(203) ANTITOXIN		>>>	3 Negative (RhD-)	2,6 %
(999) another manufacturer		>>>	2 Negative (RhD-)	1,7 %
Total per sample: n = 116		Success: 100 %		

E2 and S2 (0) not specified		>>>	1 Positive (RhD+)	0,86 %
(6) APR		>>>	1 Positive (RhD+)	0,86 %
(14) Bio-Rad		>>>	30 Positive (RhD+)	26 %
(40) Ortho Clinical Diagnostics		>>>	4 Positive (RhD+)	3,4 %
(52) Dynex		>>>	2 Positive (RhD+)	1,7 %
(64) Exbio Olomouc		>>>	2 Positive (RhD+)	1,7 %
(80) DiaMed		>>>	10 Positive (RhD+)	8,6 %
(159) Grifols		>>>	20 Positive (RhD+)	17 %
(170) Biotest		>>>	1 Positive (RhD+)	0,86 %
(171) Diagast		>>>	3 Positive (RhD+)	2,6 %
(172) Immucor		>>>	30 Positive (RhD+)	26 %
(173) Sanguin		>>>	3 Positive (RhD+)	2,6 %
(174) IVT Imuno		>>>	3 Positive (RhD+)	2,6 %
			1 w/v (RhD weak/variant)	0,86 %

EQA round: IH3/18 - Blood Group Serology

Dead line: 20.09.2018

Test

Sample	Group	N	Result	N _{rel}
E2 and S2 (203)	ANTITOXIN	>>> 3	Positive (RhD+)	2,6 %
(999)	another manufacturer	>>> 2	Positive (RhD+)	1,7 %
Total per sample: n = 116		Success: 99 %		
Total success: 99 %				

(709) Rh D antigen (recipient)

E1 and S1 (6)	APR	>>> 1	Negative (RhD-)	0,57 %
(14)	Bio-Rad	>>> 51	Negative (RhD-)	29 %
			1 Positive (RhD+)	0,57 %
(40)	Ortho Clinical Diagnostics	>>> 9	Negative (RhD-)	5,1 %
(52)	Dynex	>>> 1	Negative (RhD-)	0,57 %
(64)	Exbio Olomouc	>>> 9	Negative (RhD-)	5,1 %
(80)	DiaMed	>>> 13	Negative (RhD-)	7,4 %
(159)	Grifols	>>> 32	Negative (RhD-)	18 %
(170)	Biotest	>>> 1	Negative (RhD-)	0,57 %
(171)	Diagast	>>> 2	Negative (RhD-)	1,1 %
(172)	Immucor	>>> 36	Negative (RhD-)	20 %
(173)	Sanguin	>>> 8	Negative (RhD-)	4,5 %
(174)	IVT Imuno	>>> 4	Negative (RhD-)	2,3 %
(183)	Immunodiagnostic Systems	>>> 1	Negative (RhD-)	0,57 %
(203)	ANTITOXIN	>>> 3	Negative (RhD-)	1,7 %
(999)	another manufacturer	>>> 4	Negative (RhD-)	2,3 %
Total per sample: n = 176		Success: 99 %		
E2 and S2 (6)	APR	>>> 1	Positive (RhD+)	0,57 %
(14)	Bio-Rad	>>> 52	Positive (RhD+)	30 %
(40)	Ortho Clinical Diagnostics	>>> 9	Positive (RhD+)	5,1 %
(52)	Dynex	>>> 1	Positive (RhD+)	0,57 %
(64)	Exbio Olomouc	>>> 9	Positive (RhD+)	5,1 %
(80)	DiaMed	>>> 13	Positive (RhD+)	7,4 %
(159)	Grifols	>>> 32	Positive (RhD+)	18 %
(170)	Biotest	>>> 1	Positive (RhD+)	0,57 %
(171)	Diagast	>>> 2	Positive (RhD+)	1,1 %
(172)	Immucor	>>> 36	Positive (RhD+)	20 %
(173)	Sanguin	>>> 8	Positive (RhD+)	4,5 %
(174)	IVT Imuno	>>> 1	Negative (RhD-)	0,57 %
		>>> 3	Positive (RhD+)	1,7 %
(183)	Immunodiagnostic Systems	>>> 1	Positive (RhD+)	0,57 %
(203)	ANTITOXIN	>>> 3	Positive (RhD+)	1,7 %
(999)	another manufacturer	>>> 4	Positive (RhD+)	2,3 %
Total per sample: n = 176		Success: 99 %		
Total success: 99 %				

(715) Antigen C

E1 and S1 (14)	Bio-Rad	>>> 26	Negative	30 %
(64)	Exbio Olomouc	>>> 2	Negative	2,3 %
(80)	DiaMed	>>> 9	Negative	10 %
(159)	Grifols	>>> 22	Negative	25 %
(171)	Diagast	>>> 1	Negative	1,1 %
(172)	Immucor	>>> 16	Negative	18 %
(173)	Sanguin	>>> 2	Negative	2,3 %
(174)	IVT Imuno	>>> 1	Negative	1,1 %
(183)	Immunodiagnostic Systems	>>> 1	Negative	1,1 %
(203)	ANTITOXIN	>>> 4	Negative	4,6 %
(999)	another manufacturer	>>> 3	Negative	3,4 %
Total per sample: n = 87		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 26	Positive	30 %
(64)	Exbio Olomouc	>>> 2	Positive	2,3 %
(80)	DiaMed	>>> 9	Positive	10 %
(159)	Grifols	>>> 22	Positive	25 %
(171)	Diagast	>>> 1	Positive	1,1 %
(172)	Immucor	>>> 16	Positive	18 %
(173)	Sanguin	>>> 2	Positive	2,3 %
(174)	IVT Imuno	>>> 1	Positive	1,1 %
(183)	Immunodiagnostic Systems	>>> 1	Positive	1,1 %
(203)	ANTITOXIN	>>> 4	Positive	4,6 %
(999)	another manufacturer	>>> 3	Positive	3,4 %
Total per sample: n = 87		Success: 100 %		
Total success: 100 %				

(716) Antigen c

E1 and S1 (14)	Bio-Rad	>>> 26	Positive	30 %
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Test

Sample	Group	N	Result	N _{rel}
E1 and S1 (64)	Exbio Olomouc	>>> 2	Positive	2,3 %
	(80) DiaMed	>>> 9	Positive	10 %
	(159) Grifols	>>> 22	Positive	25 %
	(171) Diagast	>>> 1	Positive	1,1 %
	(172) Immucor	>>> 16	Positive	18 %
	(173) Sanguin	>>> 2	Positive	2,3 %
	(174) IVT Imuno	>>> 1	Positive	1,1 %
	(183) Immunodiagnostic Systems	>>> 1	Positive	1,1 %
	(203) ANTITOXIN	>>> 4	Positive	4,6 %
	(999) another manufacturer	>>> 3	Positive	3,4 %
Total per sample: n = 87		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 26	Positive	30 %
	(64) Exbio Olomouc	>>> 2	Positive	2,3 %
	(80) DiaMed	>>> 9	Positive	10 %
	(159) Grifols	>>> 22	Positive	25 %
	(171) Diagast	>>> 1	Positive	1,1 %
	(172) Immucor	>>> 16	Positive	18 %
	(173) Sanguin	>>> 2	Positive	2,3 %
	(174) IVT Imuno	>>> 1	Positive	1,1 %
	(183) Immunodiagnostic Systems	>>> 1	Positive	1,1 %
	(203) ANTITOXIN	>>> 4	Positive	4,6 %
(999) another manufacturer	>>> 3	Positive	3,4 %	
Total per sample: n = 87		Success: 100 %		

Total success: 100 %

(717) Antigen Cw

E1 and S1 (14)	Bio-Rad	>>> 14	Negative	21 %
	(64) Exbio Olomouc	>>> 4	Negative	6,1 %
	(80) DiaMed	>>> 1	Negative	1,5 %
	(159) Grifols	>>> 24	Negative	36 %
	(170) Biotest	>>> 1	Negative	1,5 %
	(172) Immucor	>>> 12	Negative	18 %
	(173) Sanguin	>>> 4	Negative	6,1 %
	(174) IVT Imuno	>>> 1	Negative	1,5 %
	(203) ANTITOXIN	>>> 3	Negative	4,5 %
	(999) another manufacturer	>>> 2	Negative	3,0 %
Total per sample: n = 66		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 14	Negative	21 %
	(64) Exbio Olomouc	>>> 4	Negative	6,1 %
	(80) DiaMed	>>> 1	Negative	1,5 %
	(159) Grifols	>>> 24	Negative	36 %
	(170) Biotest	>>> 1	Negative	1,5 %
	(172) Immucor	>>> 12	Negative	18 %
	(173) Sanguin	>>> 4	Negative	6,1 %
	(174) IVT Imuno	>>> 1	Negative	1,5 %
	(203) ANTITOXIN	>>> 3	Negative	4,5 %
	(999) another manufacturer	>>> 2	Negative	3,0 %
Total per sample: n = 66		Success: 100 %		

Total success: 100 %

(718) Antigen E

E1 and S1 (14)	Bio-Rad	>>> 26	Negative	30 %
	(64) Exbio Olomouc	>>> 2	Negative	2,3 %
	(80) DiaMed	>>> 9	Negative	10 %
	(159) Grifols	>>> 22	Negative	25 %
	(171) Diagast	>>> 1	Negative	1,1 %
	(172) Immucor	>>> 16	Negative	18 %
	(173) Sanguin	>>> 2	Negative	2,3 %
	(174) IVT Imuno	>>> 1	Negative	1,1 %
	(183) Immunodiagnostic Systems	>>> 1	Negative	1,1 %
	(203) ANTITOXIN	>>> 4	Negative	4,6 %
(999) another manufacturer	>>> 3	Negative	3,4 %	
Total per sample: n = 87		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 26	Negative	30 %
	(64) Exbio Olomouc	>>> 2	Negative	2,3 %
	(80) DiaMed	>>> 9	Negative	10 %
	(159) Grifols	>>> 22	Negative	25 %
	(171) Diagast	>>> 1	Negative	1,1 %
	(172) Immucor	>>> 16	Negative	18 %
(173) Sanguin	>>> 2	Negative	2,3 %	

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Test

Sample	Group	N	Result	N _{rel}
E2 and S2 (174)	IVT Imuno	>>>	1 Negative	1,1 %
(183)	Immunodiagnostic Systems	>>>	1 Negative	1,1 %
(203)	ANTITOXIN	>>>	4 Negative	4,6 %
(999)	another manufacturer	>>>	3 Negative	3,4 %
Total per sample: n = 87		Success: 100 %		

Total success: 100 %

(719) Antigen e

E1 and S1 (14)	Bio-Rad	>>>	26 Positive	30 %
(64)	Exbio Olomouc	>>>	2 Positive	2,3 %
(80)	DiaMed	>>>	9 Positive	10 %
(159)	Grifols	>>>	22 Positive	25 %
(171)	Diagast	>>>	1 Positive	1,1 %
(172)	Immucor	>>>	16 Positive	18 %
(173)	Sanguin	>>>	2 Positive	2,3 %
(174)	IVT Imuno	>>>	1 Positive	1,1 %
(183)	Immunodiagnostic Systems	>>>	1 Positive	1,1 %
(203)	ANTITOXIN	>>>	4 Positive	4,6 %
(999)	another manufacturer	>>>	3 Positive	3,4 %
Total per sample: n = 87		Success: 100 %		

Total success: 100 %

E2 and S2 (14)	Bio-Rad	>>>	26 Positive	30 %
(64)	Exbio Olomouc	>>>	2 Positive	2,3 %
(80)	DiaMed	>>>	9 Positive	10 %
(159)	Grifols	>>>	22 Positive	25 %
(171)	Diagast	>>>	1 Positive	1,1 %
(172)	Immucor	>>>	1 Negative	1,1 %
		>>>	15 Positive	17 %
(173)	Sanguin	>>>	2 Positive	2,3 %
(174)	IVT Imuno	>>>	1 Positive	1,1 %
(183)	Immunodiagnostic Systems	>>>	1 Positive	1,1 %
(203)	ANTITOXIN	>>>	4 Positive	4,6 %
(999)	another manufacturer	>>>	3 Positive	3,4 %
Total per sample: n = 87		Success: 99 %		

Total success: 99 %

(720) Antigen K

E1 and S1 (14)	Bio-Rad	>>>	27 Negative	30 %
(64)	Exbio Olomouc	>>>	3 Negative	3,3 %
(80)	DiaMed	>>>	9 Negative	9,9 %
(159)	Grifols	>>>	25 Negative	27 %
(171)	Diagast	>>>	1 Negative	1,1 %
(172)	Immucor	>>>	15 Negative	16 %
(173)	Sanguin	>>>	2 Negative	2,2 %
(174)	IVT Imuno	>>>	1 Negative	1,1 %
(183)	Immunodiagnostic Systems	>>>	1 Negative	1,1 %
(203)	ANTITOXIN	>>>	4 Negative	4,4 %
(999)	another manufacturer	>>>	3 Negative	3,3 %
Total per sample: n = 91		Success: 100 %		

Total success: 100 %

E2 and S2 (14)	Bio-Rad	>>>	27 Negative	30 %
(64)	Exbio Olomouc	>>>	3 Negative	3,3 %
(80)	DiaMed	>>>	9 Negative	9,9 %
(159)	Grifols	>>>	25 Negative	27 %
(171)	Diagast	>>>	1 Negative	1,1 %
(172)	Immucor	>>>	15 Negative	16 %
(173)	Sanguin	>>>	2 Negative	2,2 %
(174)	IVT Imuno	>>>	1 Negative	1,1 %
(183)	Immunodiagnostic Systems	>>>	1 Negative	1,1 %
(203)	ANTITOXIN	>>>	4 Negative	4,4 %
(999)	another manufacturer	>>>	3 Negative	3,3 %
Total per sample: n = 91		Success: 100 %		

Total success: 100 %

(721) Antigen k

E1 and S1 (14)	Bio-Rad	>>>	7 Positive	14 %
(64)	Exbio Olomouc	>>>	5 Positive	10 %
(80)	DiaMed	>>>	2 Positive	4,1 %
(159)	Grifols	>>>	13 Positive	27 %
(172)	Immucor	>>>	13 Positive	27 %
(173)	Sanguin	>>>	7 Positive	14 %
(203)	ANTITOXIN	>>>	1 Positive	2,0 %
(999)	another manufacturer	>>>	1 Positive	2,0 %

EQA round: IH3/18 - Blood Group Serology

Dead line: 20.09.2018

Test

Sample	Group	N	Result	N _{rel}
Total per sample: n = 49		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 7	Positive	14 %
(64)	Exbio Olomouc	>>> 5	Positive	10 %
(80)	DiaMed	>>> 2	Positive	4,1 %
(159)	Grifols	>>> 13	Positive	27 %
(172)	Immucor	>>> 13	Positive	27 %
(173)	Sanguin	>>> 7	Positive	14 %
(203)	ANTITOXIN	>>> 1	Positive	2,0 %
(999)	another manufacturer	>>> 1	Positive	2,0 %
Total per sample: n = 49		Success: 100 %		
Total success: 100 %				

(722) Antigen M

E1 and S1 (14)	Bio-Rad	>>> 11	Negative	22 %
(64)	Exbio Olomouc	>>> 3	Negative	6,1 %
(80)	DiaMed	>>> 4	Negative	8,2 %
(159)	Grifols	>>> 12	Negative	24 %
(172)	Immucor	>>> 8	Negative	16 %
(173)	Sanguin	>>> 5	Negative	10 %
(183)	Immunodiagnostic Systems	>>> 1	Negative	2,0 %
(203)	ANTITOXIN	>>> 4	Negative	8,2 %
(999)	another manufacturer	>>> 1	Negative	2,0 %
Total per sample: n = 49		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 11	Negative	22 %
(64)	Exbio Olomouc	>>> 3	Negative	6,1 %
(80)	DiaMed	>>> 4	Negative	8,2 %
(159)	Grifols	>>> 12	Negative	24 %
(172)	Immucor	>>> 8	Negative	16 %
(173)	Sanguin	>>> 5	Negative	10 %
(183)	Immunodiagnostic Systems	>>> 1	Negative	2,0 %
(203)	ANTITOXIN	>>> 4	Negative	8,2 %
(999)	another manufacturer	1	Not specified	2,0 %
Total per sample: n = 49		Success: 98 %		
Total success: 98 %				

(723) Antigen N

E1 and S1 (14)	Bio-Rad	>>> 10	Positive	22 %
(52)	Dynex	>>> 1	Positive	2,2 %
(64)	Exbio Olomouc	>>> 3	Positive	6,5 %
(80)	DiaMed	>>> 4	Positive	8,7 %
(159)	Grifols	>>> 13	Positive	28 %
(172)	Immucor	>>> 6	Positive	13 %
(173)	Sanguin	>>> 4	Positive	8,7 %
(183)	Immunodiagnostic Systems	>>> 1	Positive	2,2 %
(203)	ANTITOXIN	>>> 4	Positive	8,7 %
Total per sample: n = 46		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 10	Positive	22 %
(52)	Dynex	1	Not specified	2,2 %
(64)	Exbio Olomouc	>>> 3	Positive	6,5 %
(80)	DiaMed	>>> 4	Positive	8,7 %
(159)	Grifols	>>> 13	Positive	28 %
(172)	Immucor	>>> 6	Positive	13 %
(173)	Sanguin	>>> 4	Positive	8,7 %
(183)	Immunodiagnostic Systems	>>> 1	Positive	2,2 %
(203)	ANTITOXIN	>>> 4	Positive	8,7 %
Total per sample: n = 46		Success: 98 %		
Total success: 98 %				

(724) Antigen S

E1 and S1 (14)	Bio-Rad	>>> 12	Negative	25 %
(64)	Exbio Olomouc	>>> 3	Negative	6,3 %
(80)	DiaMed	>>> 4	Negative	8,3 %
(159)	Grifols	>>> 12	Negative	25 %
(172)	Immucor	>>> 7	Negative	15 %
(173)	Sanguin	>>> 5	Negative	10 %
(174)	IVT Imuno	>>> 1	Negative	2,1 %
(203)	ANTITOXIN	>>> 4	Negative	8,3 %
Total per sample: n = 48		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 12	Negative	25 %
(64)	Exbio Olomouc	>>> 3	Negative	6,3 %
(80)	DiaMed	>>> 4	Negative	8,3 %
(159)	Grifols	>>> 12	Negative	25 %

Test			N	Result	N _{rel}
Sample	Group				
E2 and S2 (172)	Immucor	>>>	7	Negative	15 %
(173)	Sanguin	>>>	5	Negative	10 %
(174)	IVT Imuno		1	Not specified	2,1 %
(203)	ANTITOXIN	>>>	4	Negative	8,3 %
Total per sample: n = 48		Success: 98 %			
Total success: 98 %					
(725) Antigen s					
E1 and S1 (14)	Bio-Rad	>>>	12	Positive	26 %
(64)	Exbio Olomouc	>>>	3	Positive	6,5 %
(80)	DiaMed	>>>	4	Positive	8,7 %
(159)	Grifols	>>>	12	Positive	26 %
(172)	Immucor	>>>	5	Positive	11 %
(173)	Sanguin	>>>	5	Positive	11 %
(174)	IVT Imuno	>>>	1	Positive	2,2 %
(203)	ANTITOXIN	>>>	4	Positive	8,7 %
Total per sample: n = 46		Success: 100 %			
E2 and S2 (14)	Bio-Rad	>>>	12	Positive	26 %
(64)	Exbio Olomouc	>>>	3	Positive	6,5 %
(80)	DiaMed	>>>	4	Positive	8,7 %
(159)	Grifols	>>>	12	Positive	26 %
(172)	Immucor	>>>	5	Positive	11 %
(173)	Sanguin	>>>	5	Positive	11 %
(174)	IVT Imuno		1	Not specified	2,2 %
(203)	ANTITOXIN	>>>	4	Positive	8,7 %
Total per sample: n = 46		Success: 98 %			
Total success: 98 %					
(726) Antigen P1					
E1 and S1 (14)	Bio-Rad	>>>	9	Negative	25 %
(64)	Exbio Olomouc	>>>	3	Negative	8,3 %
(80)	DiaMed	>>>	2	Negative	5,6 %
(159)	Grifols	>>>	9	Negative	25 %
(172)	Immucor	>>>	3	Negative	8,3 %
(173)	Sanguin	>>>	8	Negative	22 %
(203)	ANTITOXIN	>>>	2	Negative	5,6 %
Total per sample: n = 36		Success: 100 %			
E2 and S2 (14)	Bio-Rad	>>>	9	Positive	25 %
(64)	Exbio Olomouc	>>>	3	Positive	8,3 %
(80)	DiaMed	>>>	2	Positive	5,6 %
(159)	Grifols	>>>	9	Positive	25 %
(172)	Immucor	>>>	3	Positive	8,3 %
(173)	Sanguin	>>>	8	Positive	22 %
(203)	ANTITOXIN	>>>	2	Positive	5,6 %
Total per sample: n = 36		Success: 100 %			
Total success: 100 %					
(727) Antigen Fya					
E1 and S1 (14)	Bio-Rad	>>>	13	Positive	25 %
(64)	Exbio Olomouc	>>>	3	Positive	5,9 %
(80)	DiaMed	>>>	3	Positive	5,9 %
(159)	Grifols	>>>	12	Positive	24 %
(172)	Immucor	>>>	8	Positive	16 %
(173)	Sanguin	>>>	7	Positive	14 %
(174)	IVT Imuno		1	Not specified	2,0 %
(203)	ANTITOXIN	>>>	4	Positive	7,8 %
Total per sample: n = 51		Success: 98 %			
E2 and S2 (14)	Bio-Rad	>>>	13	Negative	25 %
(64)	Exbio Olomouc	>>>	3	Negative	5,9 %
(80)	DiaMed	>>>	3	Negative	5,9 %
(159)	Grifols	>>>	12	Negative	24 %
(172)	Immucor	>>>	8	Negative	16 %
(173)	Sanguin	>>>	7	Negative	14 %
(174)	IVT Imuno	>>>	1	Negative	2,0 %
(203)	ANTITOXIN	>>>	4	Negative	7,8 %
Total per sample: n = 51		Success: 100 %			
Total success: 98 %					
(728) Antigen Fyb					
E1 and S1 (14)	Bio-Rad	>>>	13	Negative	27 %
(64)	Exbio Olomouc	>>>	4	Negative	8,2 %

EQA round: IH3/18 - Blood Group Serology

Test

Sample	Group	N	Result	N _{rel}
E1 and S1 (80)	DiaMed	>>> 3	Negative	6,1 %
	(159) Grifols	>>> 12	Negative	24 %
	(172) Immucor	>>> 7	Negative	14 %
	(173) Sanguin	>>> 6	Negative	12 %
	(174) IVT Imuno		1 Not specified	2,0 %
	(203) ANTITOXIN	>>> 3	Negative	6,1 %
	Total per sample: n = 49		Success: 98 %	
E2 and S2 (14)	Bio-Rad	>>> 13	Positive	27 %
	(64) Exbio Olomouc	>>> 4	Positive	8,2 %
	(80) DiaMed	>>> 3	Positive	6,1 %
	(159) Grifols	>>> 12	Positive	24 %
	(172) Immucor	>>> 7	Positive	14 %
	(173) Sanguin	>>> 6	Positive	12 %
	(174) IVT Imuno	>>> 1	Positive	2,0 %
	(203) ANTITOXIN	>>> 3	Positive	6,1 %
Total per sample: n = 49		Success: 100 %		
Total success: 98 %				

(729) Antigen Jka

E1 and S1 (14)	Bio-Rad	>>> 12	Negative	25 %
	(52) Dynex	>>> 1	Negative	2,1 %
	(64) Exbio Olomouc	>>> 3	Negative	6,3 %
	(80) DiaMed	>>> 3	Negative	6,3 %
	(159) Grifols	>>> 13	Negative	27 %
	(172) Immucor	>>> 6	Negative	13 %
	(173) Sanguin	>>> 6	Negative	13 %
	(203) ANTITOXIN	>>> 4	Negative	8,3 %
Total per sample: n = 48		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 12	Positive	25 %
	(52) Dynex		1 Not specified	2,1 %
	(64) Exbio Olomouc	>>> 3	Positive	6,3 %
	(80) DiaMed	>>> 3	Positive	6,3 %
	(159) Grifols	>>> 13	Positive	27 %
	(172) Immucor	>>> 6	Positive	13 %
	(173) Sanguin	>>> 6	Positive	13 %
	(203) ANTITOXIN	>>> 4	Positive	8,3 %
Total per sample: n = 48		Success: 98 %		
Total success: 98 %				

(730) Antigen Jkb

E1 and S1 (14)	Bio-Rad	>>> 11	Positive	24 %
	(64) Exbio Olomouc	>>> 4	Positive	8,7 %
	(80) DiaMed	>>> 3	Positive	6,5 %
	(159) Grifols	>>> 13	Positive	28 %
	(172) Immucor	>>> 6	Positive	13 %
	(173) Sanguin	>>> 5	Positive	11 %
	(174) IVT Imuno	>>> 1	Positive	2,2 %
	(203) ANTITOXIN	>>> 3	Positive	6,5 %
Total per sample: n = 46		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 11	Negative	24 %
	(64) Exbio Olomouc	>>> 4	Negative	8,7 %
	(80) DiaMed	>>> 3	Negative	6,5 %
	(159) Grifols	>>> 13	Negative	28 %
	(172) Immucor	>>> 6	Negative	13 %
	(173) Sanguin	>>> 5	Negative	11 %
	(174) IVT Imuno		1 Not specified	2,2 %
	(203) ANTITOXIN	>>> 3	Negative	6,5 %
Total per sample: n = 46		Success: 98 %		
Total success: 98 %				

(731) Antigen Lua

E1 and S1 (14)	Bio-Rad	>>> 7	Negative	20 %
	(64) Exbio Olomouc	>>> 3	Negative	8,6 %
	(80) DiaMed	>>> 1	Negative	2,9 %
	(159) Grifols	>>> 13	Negative	37 %
	(172) Immucor	>>> 2	Negative	5,7 %
	(173) Sanguin	>>> 4	Negative	11 %
	(203) ANTITOXIN	>>> 2	Negative	5,7 %
	(999) another manufacturer	>>> 3	Negative	8,6 %
Total per sample: n = 35		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 7	Negative	20 %

EQA round: IH3/18 - Blood Group Serology

Dead line: 20.09.2018

Test

Sample	Group	N	Result	N _{rel}
E2 and S2 (64)	Exbio Olomouc	>>>	2 Negative	5,7 %
			1 Positive	2,9 %
	(80) DiaMed	>>>	1 Negative	2,9 %
	(159) Grifols	>>>	13 Negative	37 %
	(172) Immucor	>>>	2 Negative	5,7 %
	(173) Sanguin	>>>	4 Negative	11 %
	(203) ANTITOXIN	>>>	2 Negative	5,7 %
	(999) another manufacturer	>>>	3 Negative	8,6 %
	Total per sample: n = 35		Success: 97 %	
Total success: 97 %				

(732) Antigen Lub

E1 and S1 (14)	Bio-Rad	>>>	6 Positive	18 %
	(64) Exbio Olomouc	>>>	3 Positive	9,1 %
	(80) DiaMed	>>>	1 Positive	3,0 %
	(159) Grifols	>>>	12 Positive	36 %
	(172) Immucor	>>>	2 Positive	6,1 %
	(173) Sanguin	>>>	3 Positive	9,1 %
	(203) ANTITOXIN	>>>	2 Positive	6,1 %
	(999) another manufacturer	>>>	1 Negative	3,0 %
			>>>	3 Positive
Total per sample: n = 33		Success: 97 %		
E2 and S2 (14)	Bio-Rad	>>>	6 Positive	18 %
	(64) Exbio Olomouc	>>>	3 Positive	9,1 %
	(80) DiaMed	>>>	1 Positive	3,0 %
	(159) Grifols	>>>	12 Positive	36 %
	(172) Immucor	>>>	2 Positive	6,1 %
	(173) Sanguin	>>>	3 Positive	9,1 %
	(203) ANTITOXIN	>>>	2 Positive	6,1 %
	(999) another manufacturer	>>>	4 Positive	12 %
	Total per sample: n = 33		Success: 100 %	
Total success: 97 %				

(733) Antigen Lea

E1 and S1 (14)	Bio-Rad	>>>	12 Negative	31 %
	(64) Exbio Olomouc	>>>	3 Negative	7,7 %
	(80) DiaMed	>>>	1 Negative	2,6 %
	(159) Grifols	>>>	10 Negative	26 %
	(172) Immucor	>>>	4 Negative	10 %
	(173) Sanguin	>>>	5 Negative	13 %
	(203) ANTITOXIN	>>>	3 Negative	7,7 %
	(999) another manufacturer	>>>	1 Negative	2,6 %
	Total per sample: n = 39		Success: 100 %	
E2 and S2 (14)	Bio-Rad	>>>	12 Negative	31 %
	(64) Exbio Olomouc	>>>	3 Negative	7,7 %
	(80) DiaMed	>>>	1 Negative	2,6 %
	(159) Grifols	>>>	10 Negative	26 %
	(172) Immucor	>>>	4 Negative	10 %
	(173) Sanguin	>>>	5 Negative	13 %
	(203) ANTITOXIN	>>>	3 Negative	7,7 %
	(999) another manufacturer	>>>	1 Negative	2,6 %
	Total per sample: n = 39		Success: 100 %	
Total success: 100 %				

(734) Antigen Leb

E1 and S1 (14)	Bio-Rad	>>>	12 Positive	32 %
	(64) Exbio Olomouc	>>>	3 Positive	7,9 %
	(80) DiaMed	>>>	1 Positive	2,6 %
	(159) Grifols	>>>	10 Positive	26 %
	(172) Immucor	>>>	4 Positive	11 %
	(173) Sanguin	>>>	4 Positive	11 %
	(203) ANTITOXIN	>>>	3 Positive	7,9 %
	(999) another manufacturer	>>>	1 Positive	2,6 %
	Total per sample: n = 38		Success: 100 %	
E2 and S2 (14)	Bio-Rad	>>>	12 Positive	32 %
	(64) Exbio Olomouc	>>>	3 Positive	7,9 %
	(80) DiaMed	>>>	1 Positive	2,6 %
	(159) Grifols	>>>	10 Positive	26 %
	(172) Immucor	>>>	4 Positive	11 %
	(173) Sanguin	>>>	4 Positive	11 %
	(203) ANTITOXIN	>>>	3 Positive	7,9 %

EQA round: IH3/18 - Blood Group Serology

Dead line: 20.09.2018

Test

Sample	Group	N	Result	N _{rel}
E2 and S2 (999)	another manufacturer	>>> 1	Positive	2,6 %
Total per sample: n = 38		Success: 100 %		
Total success: 100 %				

(737) Direct Coombs (antiglobulin) test

E1 and S1 (14)	Bio-Rad	>>> 69	Negative	49 %
	(40) Ortho Clinical Diagnostics	>>> 9	Negative	6,4 %
	(64) Exbio Olomouc	>>> 2	Negative	1,4 %
	(80) DiaMed	>>> 29	Negative	21 %
	(159) Grifols	>>> 28	Negative	20 %
	(172) Immucor	>>> 3	Negative	2,1 %
Total per sample: n = 140		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 1	Not specified	0,71 %
		>>> 68	Negative	49 %
	(40) Ortho Clinical Diagnostics	>>> 9	Negative	6,4 %
	(64) Exbio Olomouc	>>> 2	Negative	1,4 %
	(80) DiaMed	>>> 29	Negative	21 %
	(159) Grifols	>>> 28	Negative	20 %
	(172) Immucor	>>> 3	Negative	2,1 %
Total per sample: n = 140		Success: 99 %		
Total success: 99 %				

(741) Antibody screening (IAT, blood donor)

E1 and S1 (6)	APR	>>> 1	Positive	1,0 %
	(14) Bio-Rad	>>> 1	Negative	1,0 %
		>>> 33	Positive	34 %
	(40) Ortho Clinical Diagnostics	>>> 3	Positive	3,1 %
	(64) Exbio Olomouc	>>> 1	Positive	1,0 %
	(80) DiaMed	>>> 1	Negative	1,0 %
		>>> 20	Positive	21 %
	(159) Grifols	>>> 17	Positive	18 %
	(171) Diagast	>>> 2	Positive	2,1 %
	(172) Immucor	>>> 2	Negative	2,1 %
		>>> 15	Positive	16 %
Total per sample: n = 96		Success: 96 %		
E2 and S2 (6)	APR	>>> 1	Positive	1,0 %
	(14) Bio-Rad	>>> 34	Positive	35 %
	(40) Ortho Clinical Diagnostics	>>> 3	Positive	3,1 %
	(64) Exbio Olomouc	>>> 1	Positive	1,0 %
	(80) DiaMed	>>> 21	Positive	22 %
	(159) Grifols	>>> 17	Positive	18 %
	(171) Diagast	>>> 2	Positive	2,1 %
	(172) Immucor	>>> 17	Positive	18 %
Total per sample: n = 96		Success: 100 %		
Total success: 96 %				

(743) Antibody screening (IAT, recipient)

E1 and S1 (14)	Bio-Rad	>>> 73	Positive	46 %
	(40) Ortho Clinical Diagnostics	>>> 9	Positive	5,7 %
	(80) DiaMed	>>> 29	Positive	18 %
	(159) Grifols	>>> 35	Positive	22 %
	(172) Immucor	>>> 11	Positive	7,0 %
Total per sample: n = 157		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 73	Positive	46 %
	(40) Ortho Clinical Diagnostics	>>> 9	Positive	5,7 %
	(80) DiaMed	>>> 29	Positive	18 %
	(159) Grifols	>>> 35	Positive	22 %
	(172) Immucor	>>> 11	Positive	7,0 %
Total per sample: n = 157		Success: 100 %		
Total success: 100 %				

(745) Antibody screening (IAT, pregnant)

E1 and S1 (14)	Bio-Rad	>>> 53	Positive	41 %
	(40) Ortho Clinical Diagnostics	>>> 8	Positive	6,2 %
	(64) Exbio Olomouc	>>> 1	Positive	0,77 %
	(80) DiaMed	>>> 27	Positive	21 %
	(159) Grifols	>>> 32	Positive	25 %
	(172) Immucor	>>> 9	Positive	6,9 %
Total per sample: n = 130		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 53	Positive	41 %
	(40) Ortho Clinical Diagnostics	>>> 8	Positive	6,2 %

EQA round: IH3/18 - Blood Group Serology

Dead line: 20.09.2018

Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (64)	Exbio Olomouc	>>> 1	Positive	0,77 %
	(80) DiaMed	>>> 27	Positive	21 %
	(159) Grifols	>>> 32	Positive	25 %
	(172) Immucor	>>> 9	Positive	6,9 %
Total per sample: n = 130		Success: 100 %		
Total success: 100 %				

(747) Antibody screening (enzyme test)

E1 and S1 (14)	Bio-Rad	>>> 45	Positive	42 %
	(40) Ortho Clinical Diagnostics	>>> 4	Positive	3,7 %
	(80) DiaMed		1 Negative	0,93 %
		>>> 19	Positive	18 %
	(159) Grifols	>>> 36	Positive	33 %
	(172) Immucor		1 Negative	0,93 %
		>>> 2	Positive	1,9 %
Total per sample: n = 108		Success: 98 %		
E2 and S2 (14)	Bio-Rad	>>> 45	Negative	42 %
	(40) Ortho Clinical Diagnostics	>>> 4	Negative	3,7 %
	(80) DiaMed	>>> 19	Negative	18 %
			1 Positive	0,93 %
	(159) Grifols	>>> 35	Negative	32 %
			1 Positive	0,93 %
	(172) Immucor	>>> 3	Negative	2,8 %
Total per sample: n = 108		Success: 98 %		
Total success: 96 %				

(750) Antibody identification

E1 and S1 (0) not specified		>	3 anti-Jka	5,8 %
		>>>	47 anti-Jka; anti-M	90 %
		>	1 anti-Jka; anti-M; anti-S	1,9 %
			1 anti-M	1,9 %
Total per sample: n = 52		Success: 98 %		
E2 and S2 (0) not specified		>>>	52 anti-Fya	100 %
Total per sample: n = 52		Success: 100 %		
Total success: 98 %				

(752) Antibody titre, Sample 1: 1st antibody

E1 and S1 (0) not specified		±	2 titre 1	5,0 %
		±	9 titre 2	23 %
		±	7 titre 4	18 %
		±	8 titre 8	20 %
		±	8 titre 16	20 %
		±	6 titre 32	15 %
Total per sample: n = 40		Success (only evaluated results):	evaluation	

(753) Antibody titre, Sample 1: 2nd antibody

E1 and S1 (0) not specified		±	5 titre 0 (not measurable)	12 %
		±	6 titre 1	14 %
		±	7 titre 2	17 %
		±	13 titre 4	31 %
		±	5 titre 8	12 %
		±	5 titre 16	12 %
		±	1 titre 32	2,4 %
Total per sample: n = 42		Success (only evaluated results):	evaluation	

(756) Antibody titre, Sample 2: 1st antibody

E2 and S2 (0) not specified		±	21 titre 256	47 %
		±	9 titre 512	20 %
		±	1 titre 1000	2,2 %
		±	1 titre 1	2,2 %
		±	2 titre 64	4,4 %
		±	11 titre 128	24 %
Total per sample: n = 45		Success (only evaluated results):	evaluation	

Set of samples 3**(760) Crossmatch**

S1	All results	>>> 125	Crossmatch successful	100 %
Total per sample: n = 125		Success: 100 %		
S2	All results	>>> 125	Crossmatch successful	100 %
Total per sample: n = 125		Success: 100 %		
Total success: 100 %				

(761) Crossmatch (segment K1)

Test

Sample	Group	N	Result	N _{rel}
S1	(0) not specified	> 23	Negative test	18 %
		>>> 102	Positive test	82 %
----- Total per sample: n = 125 ----- Success: 100 % -----				
S2	(0) not specified	>>> 125	Positive test	100 %
----- Total per sample: n = 125 ----- Success: 100 % -----				
Total success: 100 %				

(762) Serve transfusion product (segment K1)

S1	(0) not specified	± 106	Impossible, risk of haemolysis	85 %
		± 14	Decision depends on results of other tests not performed in our laboratory	11 %
		± 4	Only if more suitable products are not available	3,2 %
		± 1	Possible	0,80 %
----- Total per sample: n = 125 ----- Success (only evaluated results): evaluation-----				
S2	(0) not specified	± 123	Impossible, risk of haemolysis	98 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,6 %
----- Total per sample: n = 125 ----- Success (only evaluated results): evaluation-----				

(764) Crossmatch (segment K2)

S1	(0) not specified	> 34	Negative test	27 %
		>>> 91	Positive test	73 %
----- Total per sample: n = 125 ----- Success: 100 % -----				
S2	(0) not specified	>>> 125	Negative test	100 %
----- Total per sample: n = 125 ----- Success: 100 % -----				
Total success: 100 %				

(765) Serve transfusion product (segment K2)

S1	(0) not specified	± 96	Impossible, risk of haemolysis	77 %
		± 24	Decision depends on results of other tests not performed in our laboratory	19 %
		± 5	Only if more suitable products are not available	4,0 %
----- Total per sample: n = 125 ----- Success (only evaluated results): evaluation-----				
S2	(0) not specified	± 64	Decision depends on results of other tests not performed in our laboratory	51 %
		± 4	Only if more suitable products are not available	3,2 %
		± 57	Possible	46 %
----- Total per sample: n = 125 ----- Success (only evaluated results): evaluation-----				