

EQA round: IH4/20 - Blood Group Serology

Deadline: 19.11.2020

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	>>>	2	Blood group: A	1,3 %
(14) Bio-Rad	>>>	53	Blood group: A	34 %
(40) Ortho Clinical Diagnostics	>>>	2	Blood group: A	1,3 %
(52) Dynex	>>>	2	Blood group: A	1,3 %
(64) Exbio Olomouc	>>>	10	Blood group: A	6,4 %
(80) DiaMed	>>>	16	Blood group: A	10 %
(159) Grifols	>>>	31	Blood group: A	20 %
(172) Immucor	>>>	19	Blood group: A	12 %
(173) Sanguin	>>>	8	Blood group: A	5,1 %
(174) IVT Imuno	>>>	7	Blood group: A	4,5 %
(203) ANTITOXIN	>>>	2	Blood group: A	1,3 %
(999) another manufacturer	>>>	4	Blood group: A	2,6 %
----- Total per sample: n = 156 ----- Success: 100 % -----				

E2 and S2 (6) APR	>>>	2	Blood group: 0	1,3 %
(14) Bio-Rad	>>>	53	Blood group: 0	34 %
(40) Ortho Clinical Diagnostics	>>>	2	Blood group: 0	1,3 %
(52) Dynex	>>>	2	Blood group: 0	1,3 %
(64) Exbio Olomouc	>>>	10	Blood group: 0	6,4 %
(80) DiaMed	>>>	16	Blood group: 0	10 %
(159) Grifols	>>>	31	Blood group: 0	20 %
(172) Immucor	>>>	19	Blood group: 0	12 %
(173) Sanguin	>>>	8	Blood group: 0	5,1 %
(174) IVT Imuno	>>>	7	Blood group: 0	4,5 %
(203) ANTITOXIN	>>>	2	Blood group: 0	1,3 %
(999) another manufacturer	>>>	4	Blood group: 0	2,6 %
----- Total per sample: n = 156 ----- Success: 100 % -----				

Total success: 100 %

(703) A subgroup

E1 and S1 (0) not specified	>>>	50	A subgroup A1	100 %
----- Total per sample: n = 50 ----- Success: 100 % -----				
E2 and S2 (0) not specified	>>>	50	Not specified	100 %
----- Total per sample: n = 50 ----- Success: 100 % -----				

Total success: 100 %

(705) Rh D antigen (blood-donor)

E1 and S1 (6) APR	>>>	1	Positive (RhD+)	1,1 %
(14) Bio-Rad	>>>	28	Positive (RhD+)	31 %
(40) Ortho Clinical Diagnostics	>>>	2	Positive (RhD+)	2,2 %
(52) Dynex	>>>	2	Positive (RhD+)	2,2 %
(64) Exbio Olomouc	>>>	6	Positive (RhD+)	6,7 %
(80) DiaMed	>>>	6	Positive (RhD+)	6,7 %
(159) Grifols	>>>	15	Positive (RhD+)	17 %
(172) Immucor	>>>	19	Positive (RhD+)	21 %
(173) Sanguin	>>>	4	Positive (RhD+)	4,4 %
(174) IVT Imuno	>>>	3	Positive (RhD+)	3,3 %
(203) ANTITOXIN	>>>	2	Positive (RhD+)	2,2 %
(999) another manufacturer	>>>	2	Positive (RhD+)	2,2 %
----- Total per sample: n = 90 ----- Success: 100 % -----				

E2 and S2 (6) APR	>>>	1	Negative (RhD-)	1,1 %
(14) Bio-Rad	>>>	28	Negative (RhD-)	31 %
(40) Ortho Clinical Diagnostics	>>>	2	Negative (RhD-)	2,2 %
(52) Dynex	>>>	2	Negative (RhD-)	2,2 %
(64) Exbio Olomouc	>>>	6	Negative (RhD-)	6,7 %
(80) DiaMed	>>>	6	Negative (RhD-)	6,7 %
(159) Grifols	>>>	15	Negative (RhD-)	17 %
(172) Immucor	>>>	19	Negative (RhD-)	21 %
(173) Sanguin	>>>	4	Negative (RhD-)	4,4 %
(174) IVT Imuno	>>>	3	Negative (RhD-)	3,3 %
(203) ANTITOXIN	>>>	2	Negative (RhD-)	2,2 %
(999) another manufacturer	>>>	2	Negative (RhD-)	2,2 %
----- Total per sample: n = 90 ----- Success: 100 % -----				

Total success: 100 %

EQA round: IH4/20 - Blood Group Serology

Deadline: 19.11.2020

Test	Sample	Group	N	Result	N _{rel}
(709) Rh D antigen (recipient)					
	E1 and S1	(0) not specified	>>> 1	Positive (RhD+)	0,68 %
		(6) APR	>>> 2	Positive (RhD+)	1,4 %
		(14) Bio-Rad	>>> 48	Positive (RhD+)	32 %
		(40) Ortho Clinical Diagnostics	>>> 2	Positive (RhD+)	1,4 %
		(50) Merck	>>> 1	Positive (RhD+)	0,68 %
		(52) Dynex	>>> 2	Positive (RhD+)	1,4 %
		(64) Exbio Olomouc	>>> 9	Positive (RhD+)	6,1 %
		(80) DiaMed	>>> 14	Positive (RhD+)	9,5 %
		(159) Grifols	>>> 32	Positive (RhD+)	22 %
		(172) Immucor	>>> 19	Positive (RhD+)	13 %
		(173) Sanguin	>>> 5	Positive (RhD+)	3,4 %
		(174) IVT Imuno	>>> 6	Positive (RhD+)	4,1 %
		(203) ANTITOXIN	>>> 2	Positive (RhD+)	1,4 %
		(999) another manufacturer	>>> 5	Positive (RhD+)	3,4 %
	Total per sample: n = 148		Success: 100 %		
	E2 and S2	(0) not specified	>>> 1	Negative (RhD-)	0,68 %
		(6) APR	>>> 2	Negative (RhD-)	1,4 %
		(14) Bio-Rad	>>> 48	Negative (RhD-)	32 %
		(40) Ortho Clinical Diagnostics	>>> 2	Negative (RhD-)	1,4 %
		(50) Merck	>>> 1	Negative (RhD-)	0,68 %
		(52) Dynex	>>> 2	Negative (RhD-)	1,4 %
		(64) Exbio Olomouc	>>> 9	Negative (RhD-)	6,1 %
		(80) DiaMed	>>> 14	Negative (RhD-)	9,5 %
		(159) Grifols	>>> 32	Negative (RhD-)	22 %
		(172) Immucor	>>> 19	Negative (RhD-)	13 %
		(173) Sanguin	>>> 5	Negative (RhD-)	3,4 %
		(174) IVT Imuno	>>> 6	Negative (RhD-)	4,1 %
		(203) ANTITOXIN	>>> 2	Negative (RhD-)	1,4 %
		(999) another manufacturer	>>> 5	Negative (RhD-)	3,4 %
	Total per sample: n = 148		Success: 100 %		
Total success: 100 %					
(715) Antigen C					
	E1 and S1	(14) Bio-Rad	>>> 28	Positive	42 %
		(64) Exbio Olomouc	>>> 1	Positive	1,5 %
		(80) DiaMed	>>> 6	Positive	9,1 %
		(159) Grifols	>>> 11	Positive	17 %
		(172) Immucor	>>> 10	Positive	15 %
		(173) Sanguin	>>> 2	Positive	3,0 %
		(174) IVT Imuno	>>> 4	Positive	6,1 %
		(203) ANTITOXIN	>>> 3	Positive	4,5 %
		(999) another manufacturer	>>> 1	Positive	1,5 %
	Total per sample: n = 66		Success: 100 %		
	E2 and S2	(14) Bio-Rad	>>> 28	Negative	42 %
		(64) Exbio Olomouc	>>> 1	Negative	1,5 %
		(80) DiaMed	>>> 6	Negative	9,1 %
		(159) Grifols	>>> 11	Negative	17 %
		(172) Immucor	>>> 10	Negative	15 %
		(173) Sanguin	>>> 2	Negative	3,0 %
		(174) IVT Imuno	>>> 4	Negative	6,1 %
		(203) ANTITOXIN	>>> 3	Negative	4,5 %
		(999) another manufacturer	>>> 1	Negative	1,5 %
	Total per sample: n = 66		Success: 100 %		
Total success: 100 %					
(716) Antigen c					
	E1 and S1	(14) Bio-Rad	>>> 28	Negative	42 %
		(64) Exbio Olomouc	>>> 1	Negative	1,5 %
		(80) DiaMed	>>> 6	Negative	9,1 %
		(159) Grifols	>>> 11	Negative	17 %
		(172) Immucor	>>> 10	Negative	15 %
		(173) Sanguin	>>> 2	Negative	3,0 %
		(174) IVT Imuno	>>> 4	Negative	6,1 %
		(203) ANTITOXIN	>>> 3	Negative	4,5 %
		(999) another manufacturer	>>> 1	Negative	1,5 %
	Total per sample: n = 66		Success: 100 %		
	E2 and S2	(14) Bio-Rad	>>> 28	Positive	42 %
		(64) Exbio Olomouc	>>> 1	Positive	1,5 %
		(80) DiaMed	>>> 6	Positive	9,1 %
		(159) Grifols	>>> 11	Positive	17 %

Summary statistics - qualitative results

(Groups: manufacturer of kit)

EQA round: IH4/20 - Blood Group Serology

Deadline: 19.11.2020

Test		N	Result	N _{rel}
Sample	Group			
E2 and S2	(172) Immucor	>>> 10	Positive	15 %
	(173) Sanguin	>>> 2	Positive	3,0 %
	(174) IVT Imuno	>>> 4	Positive	6,1 %
	(203) ANTITOXIN	>>> 3	Positive	4,5 %
	(999) another manufacturer	>>> 1	Positive	1,5 %
Total per sample: n = 66		Success: 100 %		
Total success: 100 %				
(717) Antigen Cw				
E1 and S1	(14) Bio-Rad	>>> 19	Negative	36 %
	(52) Dynex	>>> 1	Negative	1,9 %
	(64) Exbio Olomouc	>>> 2	Negative	3,8 %
	(80) DiaMed	>>> 2	Negative	3,8 %
	(159) Grifols	>>> 11	Negative	21 %
	(172) Immucor	>>> 10	Negative	19 %
	(173) Sanguin	>>> 4	Negative	7,5 %
	(174) IVT Imuno	>>> 2	Negative	3,8 %
	(203) ANTITOXIN	>>> 2	Negative	3,8 %
Total per sample: n = 53		Success: 100 %		
E2 and S2	(14) Bio-Rad	>>> 19	Negative	36 %
	(52) Dynex	>>> 1	Negative	1,9 %
	(64) Exbio Olomouc	>>> 2	Negative	3,8 %
	(80) DiaMed	>>> 2	Negative	3,8 %
	(159) Grifols	>>> 11	Negative	21 %
	(172) Immucor	>>> 10	Negative	19 %
	(173) Sanguin	>>> 4	Negative	7,5 %
	(174) IVT Imuno	>>> 2	Negative	3,8 %
	(203) ANTITOXIN	>>> 2	Negative	3,8 %
Total per sample: n = 53		Success: 100 %		
Total success: 100 %				
(718) Antigen E				
E1 and S1	(14) Bio-Rad	>>> 28	Negative	42 %
	(64) Exbio Olomouc	>>> 1	Negative	1,5 %
	(80) DiaMed	>>> 6	Negative	9,1 %
	(159) Grifols	>>> 11	Negative	17 %
	(172) Immucor	>>> 10	Negative	15 %
	(173) Sanguin	>>> 2	Negative	3,0 %
	(174) IVT Imuno	>>> 4	Negative	6,1 %
	(203) ANTITOXIN	>>> 3	Negative	4,5 %
	(999) another manufacturer	>>> 1	Negative	1,5 %
Total per sample: n = 66		Success: 100 %		
E2 and S2	(14) Bio-Rad	>>> 28	Positive	42 %
	(64) Exbio Olomouc	>>> 1	Positive	1,5 %
	(80) DiaMed	>>> 6	Positive	9,1 %
	(159) Grifols	>>> 11	Positive	17 %
	(172) Immucor	>>> 10	Positive	15 %
	(173) Sanguin	>>> 2	Positive	3,0 %
	(174) IVT Imuno	>>> 4	Positive	6,1 %
	(203) ANTITOXIN	>>> 3	Positive	4,5 %
	(999) another manufacturer	>>> 1	Positive	1,5 %
Total per sample: n = 66		Success: 100 %		
Total success: 100 %				
(719) Antigen e				
E1 and S1	(14) Bio-Rad	>>> 28	Positive	42 %
	(64) Exbio Olomouc	>>> 1	Positive	1,5 %
	(80) DiaMed	>>> 6	Positive	9,1 %
	(159) Grifols	>>> 11	Positive	17 %
	(172) Immucor	>>> 10	Positive	15 %
	(173) Sanguin	>>> 2	Positive	3,0 %
	(174) IVT Imuno	>>> 4	Positive	6,1 %
	(203) ANTITOXIN	>>> 3	Positive	4,5 %
	(999) another manufacturer	>>> 1	Positive	1,5 %
Total per sample: n = 66		Success: 100 %		
E2 and S2	(14) Bio-Rad	>>> 28	Positive	42 %
	(64) Exbio Olomouc	>>> 1	Positive	1,5 %
	(80) DiaMed	>>> 6	Positive	9,1 %
	(159) Grifols	>>> 11	Positive	17 %
	(172) Immucor	>>> 10	Positive	15 %

EQA round: IH4/20 - Blood Group Serology

Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (173)	Sanguin	>>> 2	Positive	3,0 %
(174)	IVT Imuno	>>> 4	Positive	6,1 %
(203)	ANTITOXIN	>>> 3	Positive	4,5 %
(999)	another manufacturer	>>> 1	Positive	1,5 %
Total per sample: n = 66		Success: 100 %		
Total success: 100 %				
(720) Antigen K				
E1 and S1 (14)	Bio-Rad	>>> 25	Negative	35 %
(80)	DiaMed	>>> 6	Negative	8,5 %
(159)	Grifols	>>> 16	Negative	23 %
(172)	Immucor	>>> 10	Negative	14 %
(173)	Sanguin	>>> 3	Negative	4,2 %
(174)	IVT Imuno	>>> 6	Negative	8,5 %
(203)	ANTITOXIN	>>> 3	Negative	4,2 %
(999)	another manufacturer	>>> 2	Negative	2,8 %
Total per sample: n = 71		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>> 25	Negative	35 %
(80)	DiaMed	>>> 6	Negative	8,5 %
(159)	Grifols	>>> 16	Negative	23 %
(172)	Immucor	>>> 10	Negative	14 %
(173)	Sanguin	>>> 3	Negative	4,2 %
(174)	IVT Imuno	>>> 6	Negative	8,5 %
(203)	ANTITOXIN	>>> 3	Negative	4,2 %
(999)	another manufacturer	>>> 2	Negative	2,8 %
Total per sample: n = 71		Success: 100 %		
Total success: 100 %				
(721) Antigen k				
E1 and S1 (6)	APR	>>> 1	Positive	2,6 %
(14)	Bio-Rad	>>> 8	Positive	21 %
(64)	Exbio Olomouc	>>> 6	Positive	15 %
(80)	DiaMed	>>> 1	Positive	2,6 %
(159)	Grifols	>>> 6	Positive	15 %
(172)	Immucor	>>> 5	Positive	13 %
(173)	Sanguin	>>> 8	Positive	21 %
(174)	IVT Imuno	>>> 1	Positive	2,6 %
(203)	ANTITOXIN	>>> 2	Positive	5,1 %
(999)	another manufacturer	>>> 1	Positive	2,6 %
Total per sample: n = 39		Success: 100 %		
E2 and S2 (6)	APR	>>> 1	Positive	2,6 %
(14)	Bio-Rad	>>> 8	Positive	21 %
(64)	Exbio Olomouc	>>> 6	Positive	15 %
(80)	DiaMed	>>> 1	Positive	2,6 %
(159)	Grifols	>>> 6	Positive	15 %
(172)	Immucor	>>> 5	Positive	13 %
(173)	Sanguin	>>> 8	Positive	21 %
(174)	IVT Imuno	>>> 1	Positive	2,6 %
(203)	ANTITOXIN	>>> 2	Positive	5,1 %
(999)	another manufacturer	>>> 1	Positive	2,6 %
Total per sample: n = 39		Success: 100 %		
Total success: 100 %				
(722) Antigen M				
E1 and S1 (6)	APR	>>> 1	Positive	2,7 %
(14)	Bio-Rad	>>> 7	Positive	19 %
(52)	Dynex	>>> 2	Positive	5,4 %
(64)	Exbio Olomouc	>>> 3	Positive	8,1 %
(80)	DiaMed	>>> 4	Positive	11 %
(159)	Grifols	>>> 3	Positive	8,1 %
(172)	Immucor	>>> 13	Positive	35 %
(173)	Sanguin	>>> 2	Positive	5,4 %
(203)	ANTITOXIN	>>> 2	Positive	5,4 %
Total per sample: n = 37		Success: 100 %		
E2 and S2 (6)	APR	>>> 1	Positive	2,7 %
(14)	Bio-Rad	>>> 7	Positive	19 %
(52)	Dynex	>>> 2	Positive	5,4 %
(64)	Exbio Olomouc	>>> 3	Positive	8,1 %
(80)	DiaMed	>>> 4	Positive	11 %
(159)	Grifols	>>> 3	Positive	8,1 %

Test

Sample	Group	N	Result	N _{rel}
E2 and S2 (172)	Immucor	>>> 13	Positive	35 %
(173)	Sanguin	>>> 2	Positive	5,4 %
(203)	ANTITOXIN	>>> 2	Positive	5,4 %
Total per sample: n = 37		Success: 100 %		
Total success: 100 %				

(723) Antigen N

E1 and S1 (6)	APR	>>> 1	Negative	2,9 %
(14)	Bio-Rad	>>> 8	Negative	24 %
(52)	Dynex	>>> 2	Negative	5,9 %
(64)	Exbio Olomouc	>>> 2	Negative	5,9 %
(80)	DiaMed	>>> 4	Negative	12 %
(159)	Grifols	>>> 3	Negative	8,8 %
(172)	Immucor	>>> 10	Negative	29 %
(173)	Sanguin	>>> 2	Negative	5,9 %
(203)	ANTITOXIN	>>> 2	Negative	5,9 %
Total per sample: n = 34		Success: 100 %		
E2 and S2 (6)	APR	>>> 1	Positive	2,9 %
(14)	Bio-Rad	>>> 8	Positive	24 %
(52)	Dynex	>>> 2	Positive	5,9 %
(64)	Exbio Olomouc	>>> 2	Positive	5,9 %
(80)	DiaMed	>>> 4	Positive	12 %
(159)	Grifols	>>> 3	Positive	8,8 %
(172)	Immucor	>>> 10	Positive	29 %
(173)	Sanguin	>>> 2	Positive	5,9 %
(203)	ANTITOXIN	>>> 2	Positive	5,9 %
Total per sample: n = 34		Success: 100 %		
Total success: 100 %				

(724) Antigen S

E1 and S1 (6)	APR	>>> 1	Negative	2,7 %
(14)	Bio-Rad	>>> 9	Negative	24 %
(50)	Merck	>>> 1	Negative	2,7 %
(52)	Dynex	>>> 2	Negative	5,4 %
(64)	Exbio Olomouc	>>> 2	Negative	5,4 %
(80)	DiaMed	>>> 4	Negative	11 %
(159)	Grifols	>>> 3	Negative	8,1 %
(172)	Immucor	>>> 7	Negative	19 %
(173)	Sanguin	>>> 4	Negative	11 %
(174)	IVT Imuno	>>> 2	Negative	5,4 %
(203)	ANTITOXIN	>>> 2	Negative	5,4 %
Total per sample: n = 37		Success: 100 %		
E2 and S2 (6)	APR	>>> 1	Positive	2,7 %
(14)	Bio-Rad	>>> 9	Positive	24 %
(50)	Merck	>>> 1	Positive	2,7 %
(52)	Dynex	>>> 2	Positive	5,4 %
(64)	Exbio Olomouc	>>> 2	Positive	5,4 %
(80)	DiaMed	>>> 4	Positive	11 %
(159)	Grifols	>>> 3	Positive	8,1 %
(172)	Immucor	>>> 7	Positive	19 %
(173)	Sanguin	>>> 4	Positive	11 %
(174)	IVT Imuno	>>> 2	Positive	5,4 %
(203)	ANTITOXIN	>>> 2	Positive	5,4 %
Total per sample: n = 37		Success: 100 %		
Total success: 100 %				

(725) Antigen s

E1 and S1 (6)	APR	>>> 1	Positive	2,9 %
(14)	Bio-Rad	>>> 8	Positive	23 %
(64)	Exbio Olomouc	>>> 3	Positive	8,6 %
(80)	DiaMed	>>> 4	Positive	11 %
(159)	Grifols	>>> 3	Positive	8,6 %
(172)	Immucor	>>> 7	Positive	20 %
(173)	Sanguin	>>> 5	Positive	14 %
(174)	IVT Imuno	>>> 2	Positive	5,7 %
(203)	ANTITOXIN	>>> 2	Positive	5,7 %
Total per sample: n = 35		Success: 100 %		
E2 and S2 (6)	APR	>>> 1	Negative	2,9 %
(14)	Bio-Rad	>>> 8	Negative	23 %
(64)	Exbio Olomouc	>>> 3	Negative	8,6 %

Summary statistics - qualitative results

(Groups: manufacturer of kit)

EQA round: IH4/20 - Blood Group Serology

Deadline: 19.11.2020

Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (80) DiaMed	>>>	4	Negative	11 %
(159) Grifols	>>>	3	Negative	8,6 %
(172) Immucor	>>>	7	Negative	20 %
(173) Sanguin	>>>	5	Negative	14 %
(174) IVT Imuno	>>>	2	Negative	5,7 %
(203) ANTITOXIN	>>>	2	Negative	5,7 %
Total per sample: n = 35		Success: 100 %		
Total success: 100 %				
(726) Antigen P1				
E1 and S1 (6) APR	>>>	1	Positive	3,6 %
(14) Bio-Rad	>>>	5	Positive	18 %
(64) Exbio Olomouc	>>>	3	Positive	11 %
(80) DiaMed	>>>	2	Positive	7,1 %
(159) Grifols	>>>	1	Positive	3,6 %
(172) Immucor	>>>	8	Positive	29 %
(173) Sanguin	>>>	5	Positive	18 %
(174) IVT Imuno	>>>	1	Positive	3,6 %
(203) ANTITOXIN	>>>	2	Positive	7,1 %
Total per sample: n = 28		Success: 100 %		
E2 and S2 (6) APR	>>>	1	Negative	3,6 %
(14) Bio-Rad	>>>	5	Negative	18 %
(64) Exbio Olomouc	>>>	3	Negative	11 %
(80) DiaMed	>>>	2	Negative	7,1 %
(159) Grifols	>>>	1	Negative	3,6 %
(172) Immucor	>>>	8	Negative	29 %
(173) Sanguin	>>>	5	Negative	18 %
(174) IVT Imuno	>>>	1	Negative	3,6 %
(203) ANTITOXIN	>>>	2	Negative	7,1 %
Total per sample: n = 28		Success: 100 %		
Total success: 100 %				
(727) Antigen Fya				
E1 and S1 (14) Bio-Rad	>>>	10	Positive	26 %
(64) Exbio Olomouc	>>>	4	Positive	11 %
(80) DiaMed	>>>	4	Positive	11 %
(159) Grifols	>>>	3	Positive	7,9 %
(172) Immucor	>>>	8	Positive	21 %
(173) Sanguin	>>>	5	Positive	13 %
(174) IVT Imuno	>>>	2	Positive	5,3 %
(203) ANTITOXIN	>>>	2	Positive	5,3 %
Total per sample: n = 38		Success: 100 %		
E2 and S2 (14) Bio-Rad	>>>	10	Positive	26 %
(64) Exbio Olomouc	>>>	4	Positive	11 %
(80) DiaMed	>>>	4	Positive	11 %
(159) Grifols	>>>	3	Positive	7,9 %
(172) Immucor	>>>	1	Negative	2,6 %
	>>>	7	Positive	18 %
(173) Sanguin	>>>	5	Positive	13 %
(174) IVT Imuno	>>>	2	Positive	5,3 %
(203) ANTITOXIN	>>>	2	Positive	5,3 %
Total per sample: n = 38		Success: 97 %		
Total success: 97 %				
(728) Antigen Fyb				
E1 and S1 (14) Bio-Rad	>>>	10	Positive	26 %
(64) Exbio Olomouc	>>>	4	Positive	11 %
(80) DiaMed	>>>	4	Positive	11 %
(159) Grifols	>>>	3	Positive	7,9 %
(172) Immucor	>>>	8	Positive	21 %
(173) Sanguin	>>>	5	Positive	13 %
(174) IVT Imuno	>>>	2	Positive	5,3 %
(203) ANTITOXIN	>>>	2	Positive	5,3 %
Total per sample: n = 38		Success: 100 %		
E2 and S2 (14) Bio-Rad	>>>	10	Negative	26 %
(64) Exbio Olomouc	>>>	4	Negative	11 %
(80) DiaMed	>>>	4	Negative	11 %
(159) Grifols	>>>	3	Negative	7,9 %
(172) Immucor	>>>	8	Negative	21 %
(173) Sanguin	>>>	5	Negative	13 %

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Deadline: 19.11.2020

Test

Sample	Group	N	Result	N _{rel}
E2 and S2 (174)	IVT Imuno	>>>	2 Negative	5,3 %
(203)	ANTITOXIN	>>>	2 Negative	5,3 %
Total per sample: n = 38		Success: 100 %		
Total success: 100 %				

(729) Antigen Jka

E1 and S1 (6)	APR	>>>	1 Positive	2,7 %
(14)	Bio-Rad	>>>	8 Positive	22 %
(50)	Merck	>>>	1 Positive	2,7 %
(52)	Dynex	>>>	3 Positive	8,1 %
(64)	Exbio Olomouc	>>>	2 Positive	5,4 %
(80)	DiaMed	>>>	4 Positive	11 %
(159)	Grifols	>>>	3 Positive	8,1 %
(172)	Immucor	>>>	8 Positive	22 %
(173)	Sanguin	>>>	5 Positive	14 %
(203)	ANTITOXIN	>>>	2 Positive	5,4 %
Total per sample: n = 37		Success: 100 %		
Total success: 100 %				
E2 and S2 (6)	APR	>>>	1 Positive	2,7 %
(14)	Bio-Rad	>>>	8 Positive	22 %
(50)	Merck	>>>	1 Positive	2,7 %
(52)	Dynex	>>>	3 Positive	8,1 %
(64)	Exbio Olomouc	>>>	2 Positive	5,4 %
(80)	DiaMed	>>>	4 Positive	11 %
(159)	Grifols	>>>	3 Positive	8,1 %
(172)	Immucor	>>>	8 Positive	22 %
(173)	Sanguin	>>>	5 Positive	14 %
(203)	ANTITOXIN	>>>	2 Positive	5,4 %
Total per sample: n = 37		Success: 100 %		
Total success: 100 %				

(730) Antigen Jkb

E1 and S1 (6)	APR	>>>	1 Positive	2,7 %
(14)	Bio-Rad	>>>	8 Positive	22 %
(50)	Merck	>>>	1 Positive	2,7 %
(52)	Dynex	>>>	3 Positive	8,1 %
(64)	Exbio Olomouc	>>>	2 Positive	5,4 %
(80)	DiaMed	>>>	4 Positive	11 %
(159)	Grifols	>>>	3 Positive	8,1 %
(172)	Immucor	>>>	8 Positive	22 %
(173)	Sanguin	>>>	5 Positive	14 %
(203)	ANTITOXIN	>>>	2 Positive	5,4 %
Total per sample: n = 37		Success: 100 %		
Total success: 100 %				
E2 and S2 (6)	APR	>>>	1 Negative	2,7 %
(14)	Bio-Rad	>>>	8 Negative	22 %
(50)	Merck	>>>	1 Negative	2,7 %
(52)	Dynex	>>>	3 Negative	8,1 %
(64)	Exbio Olomouc	>>>	2 Negative	5,4 %
(80)	DiaMed	>>>	4 Negative	11 %
(159)	Grifols	>>>	3 Negative	8,1 %
(172)	Immucor	>>>	8 Negative	22 %
(173)	Sanguin	>>>	5 Negative	14 %
(203)	ANTITOXIN	>>>	2 Negative	5,4 %
Total per sample: n = 37		Success: 100 %		
Total success: 100 %				

(731) Antigen Lua

E1 and S1 (14)	Bio-Rad	>>>	7 Negative	30 %
(64)	Exbio Olomouc	>>>	1 Negative	4,3 %
(80)	DiaMed	>>>	3 Negative	13 %
(159)	Grifols	>>>	5 Negative	22 %
(172)	Immucor	>>>	4 Negative	17 %
(173)	Sanguin	>>>	3 Negative	13 %
Total per sample: n = 23		Success: 100 %		
Total success: 100 %				
E2 and S2 (14)	Bio-Rad	>>>	7 Negative	30 %
(64)	Exbio Olomouc	>>>	1 Negative	4,3 %
(80)	DiaMed	>>>	3 Negative	13 %
(159)	Grifols	>>>	5 Negative	22 %
(172)	Immucor	>>>	4 Negative	17 %
(173)	Sanguin	>>>	3 Negative	13 %
Total per sample: n = 23		Success: 100 %		
Total success: 100 %				

Test		N	Result	N _{rel}
Sample	Group			
Total success: 100 %				
(732) Antigen Lub				
E1 and S1	(14) Bio-Rad	>>> 6	Positive	23 %
	(64) Exbio Olomouc	>>> 1	Negative	3,8 %
	(80) DiaMed	>>> 2	Positive	7,7 %
	(159) Grifols	>>> 3	Positive	12 %
	(172) Immucor	>>> 4	Positive	15 %
	(173) Sanguin	>>> 4	Positive	15 %
	(173) Sanguin	>>> 3	Positive	12 %
	(203) ANTITOXIN	>>> 1	Positive	3,8 %
	(999) another manufacturer	>>> 2	Positive	7,7 %
Total per sample: n = 26		Success: 96 %		
E2 and S2	(14) Bio-Rad	>>> 6	Positive	23 %
	(64) Exbio Olomouc	>>> 1	Negative	3,8 %
	(80) DiaMed	>>> 2	Positive	7,7 %
	(159) Grifols	>>> 3	Positive	12 %
	(172) Immucor	>>> 4	Positive	15 %
	(173) Sanguin	>>> 4	Positive	15 %
	(173) Sanguin	>>> 3	Positive	12 %
	(203) ANTITOXIN	>>> 1	Positive	3,8 %
	(999) another manufacturer	>>> 2	Positive	7,7 %
Total per sample: n = 26		Success: 96 %		
Total success: 96 %				
(733) Antigen Lea				
E1 and S1	(14) Bio-Rad	>>> 7	Negative	20 %
	(50) Merck	>>> 1	Negative	2,9 %
	(52) Dynex	>>> 2	Negative	5,7 %
	(64) Exbio Olomouc	>>> 3	Negative	8,6 %
	(80) DiaMed	>>> 4	Negative	11 %
	(159) Grifols	>>> 1	Negative	2,9 %
	(172) Immucor	>>> 1	Positive	2,9 %
	(172) Immucor	>>> 12	Negative	34 %
	(173) Sanguin	>>> 1	Negative	2,9 %
	(174) IVT Imuno	>>> 2	Negative	5,7 %
	(203) ANTITOXIN	>>> 1	Negative	2,9 %
Total per sample: n = 35		Success: 97 %		
E2 and S2	(14) Bio-Rad	>>> 7	Negative	20 %
	(50) Merck	>>> 1	Negative	2,9 %
	(52) Dynex	>>> 2	Negative	5,7 %
	(64) Exbio Olomouc	>>> 3	Negative	8,6 %
	(80) DiaMed	>>> 4	Negative	11 %
	(159) Grifols	>>> 2	Negative	5,7 %
	(172) Immucor	>>> 12	Negative	34 %
	(173) Sanguin	>>> 1	Negative	2,9 %
	(174) IVT Imuno	>>> 2	Negative	5,7 %
	(203) ANTITOXIN	>>> 1	Negative	2,9 %
Total per sample: n = 35		Success: 100 %		
Total success: 97 %				
(734) Antigen Leb				
E1 and S1	(14) Bio-Rad	>>> 7	Positive	20 %
	(50) Merck	>>> 1	Positive	2,9 %
	(52) Dynex	>>> 2	Positive	5,7 %
	(64) Exbio Olomouc	>>> 3	Positive	8,6 %
	(80) DiaMed	>>> 1	Negative	2,9 %
	(159) Grifols	>>> 3	Positive	8,6 %
	(159) Grifols	>>> 2	Positive	5,7 %
	(172) Immucor	>>> 12	Positive	34 %
	(173) Sanguin	>>> 1	Positive	2,9 %
	(174) IVT Imuno	>>> 2	Positive	5,7 %
	(203) ANTITOXIN	>>> 1	Positive	2,9 %
Total per sample: n = 35		Success: 97 %		
E2 and S2	(14) Bio-Rad	>>> 7	Positive	20 %
	(50) Merck	>>> 1	Positive	2,9 %
	(52) Dynex	>>> 2	Positive	5,7 %
	(64) Exbio Olomouc	>>> 3	Positive	8,6 %
	(80) DiaMed	>>> 4	Positive	11 %
	(159) Grifols	>>> 2	Positive	5,7 %
	(172) Immucor	>>> 12	Positive	34 %

EQA round: IH4/20 - Blood Group Serology

Deadline: 19.11.2020

Test		N	Result	N _{rel}
Sample	Group			
E2 and S2 (173)	Sanguin	>>> 1	Positive	2,9 %
(174)	IVT Imuno	>>> 2	Positive	5,7 %
(203)	ANTITOXIN	>>> 1	Positive	2,9 %
Total per sample: n = 35		Success: 100 %		
Total success: 97 %				
(737) Direct Coombs (antiglobulin) test				
E1 and S1 (6)	APR	>>> 1	Negative	0,79 %
(14)	Bio-Rad	>>> 56	Negative	44 %
(40)	Ortho Clinical Diagnostics	>>> 2	Negative	1,6 %
(64)	Exbio Olomouc	>>> 2	Negative	1,6 %
(80)	DiaMed	>>> 24	Negative	19 %
(159)	Grifols	>>> 38	Negative	30 %
(173)	Sanguin	>>> 1	Negative	0,79 %
(174)	IVT Imuno	>>> 1	Negative	0,79 %
(203)	ANTITOXIN	>>> 1	Negative	0,79 %
Total per sample: n = 126		Success: 100 %		
E2 and S2 (6)	APR	>>> 1	Negative	0,79 %
(14)	Bio-Rad	>>> 56	Negative	44 %
(40)	Ortho Clinical Diagnostics	>>> 2	Negative	1,6 %
(64)	Exbio Olomouc	>>> 2	Negative	1,6 %
(80)	DiaMed	>>> 24	Negative	19 %
(159)	Grifols	>>> 38	Negative	30 %
(173)	Sanguin	>>> 1	Negative	0,79 %
(174)	IVT Imuno	>>> 1	Negative	0,79 %
(203)	ANTITOXIN	>>> 1	Negative	0,79 %
Total per sample: n = 126		Success: 100 %		
Total success: 100 %				
(741) Antibody screening (IAT, blood donor)				
E1 and S1 (6)	APR	>>> 1	Positive	1,2 %
(14)	Bio-Rad	>>> 37	Positive	46 %
(40)	Ortho Clinical Diagnostics	>>> 1	Positive	1,2 %
(64)	Exbio Olomouc	>>> 1	Positive	1,2 %
(80)	DiaMed	>>> 13	Positive	16 %
(159)	Grifols	>>> 17	Positive	21 %
(172)	Immucor	>>> 11	Positive	14 %
Total per sample: n = 81		Success: 100 %		
E2 and S2 (6)	APR	>>> 1	Positive	1,2 %
(14)	Bio-Rad	>>> 37	Positive	46 %
(40)	Ortho Clinical Diagnostics	>>> 1	Positive	1,2 %
(64)	Exbio Olomouc	>>> 1	Positive	1,2 %
(80)	DiaMed	>>> 13	Positive	16 %
(159)	Grifols	>>> 17	Positive	21 %
(172)	Immucor	>>> 11	Positive	14 %
Total per sample: n = 81		Success: 100 %		
Total success: 100 %				
(743) Antibody screening (IAT, recipient)				
E1 and S1 (0)	not specified	>>> 1	Positive	0,73 %
(6)	APR	>>> 2	Positive	1,5 %
(14)	Bio-Rad	>>> 64	Positive	47 %
(40)	Ortho Clinical Diagnostics	>>> 2	Positive	1,5 %
(80)	DiaMed	>>> 25	Positive	18 %
(159)	Grifols	>>> 37	Positive	27 %
(172)	Immucor	>>> 6	Positive	4,4 %
Total per sample: n = 137		Success: 100 %		
E2 and S2 (0)	not specified	>>> 1	Positive	0,73 %
(6)	APR	>>> 2	Positive	1,5 %
(14)	Bio-Rad	>>> 64	Positive	47 %
(40)	Ortho Clinical Diagnostics	>>> 2	Positive	1,5 %
(80)	DiaMed	>>> 25	Positive	18 %
(159)	Grifols	>>> 37	Positive	27 %
(172)	Immucor	>>> 6	Positive	4,4 %
Total per sample: n = 137		Success: 100 %		
Total success: 100 %				
(745) Antibody screening (IAT, pregnant)				
E1 and S1 (6)	APR	>>> 2	Positive	1,8 %
(14)	Bio-Rad	>>> 51	Positive	45 %
(40)	Ortho Clinical Diagnostics	>>> 2	Positive	1,8 %

EQA round: IH4/20 - Blood Group Serology

Test	Sample	Group	N	Result	N _{rel}	
E1 and S1 (64)		Exbio Olomouc	>>>	1	Positive	0,88 %
		(80) DiaMed	>>>	19	Positive	17 %
		(159) Grifols	>>>	34	Positive	30 %
		(172) Immucor	>>>	4	Positive	3,5 %
		Total per sample: n = 113		Success: 100 %		
E2 and S2 (6)		APR	>>>	2	Positive	1,8 %
		(14) Bio-Rad	>>>	51	Positive	45 %
		(40) Ortho Clinical Diagnostics	>>>	2	Positive	1,8 %
		(64) Exbio Olomouc	>>>	1	Positive	0,88 %
		(80) DiaMed	>>>	19	Positive	17 %
		(159) Grifols	>>>	34	Positive	30 %
		(172) Immucor	>>>	4	Positive	3,5 %
Total per sample: n = 113		Success: 100 %				
Total success: 100 %						
(747) Antibody screening (enzyme test)						
E1 and S1 (14)		Bio-Rad	>>>	49	Positive	48 %
		(40) Ortho Clinical Diagnostics	>>>	2	Positive	1,9 %
		(80) DiaMed	>>>	21	Positive	20 %
		(159) Grifols	>>>	30	Positive	29 %
		(172) Immucor	>>>	1	Positive	0,97 %
Total per sample: n = 103		Success: 100 %				
E2 and S2 (14)		Bio-Rad	>>>	49	Positive	48 %
		(40) Ortho Clinical Diagnostics	>>>	2	Positive	1,9 %
		(80) DiaMed	>>>	21	Positive	20 %
		(159) Grifols	>>>	30	Positive	29 %
		(172) Immucor	>>>	1	Positive	0,97 %
Total per sample: n = 103		Success: 100 %				
Total success: 100 %						
(750) Antibody identification						
E1 and S1 (0)		not specified	>>>	43	anti-E; anti-S	98 %
				1	anti-E; anti-S; anti-K	2,3 %
Total per sample: n = 44		Success: 98 %				
E2 and S2 (0)		not specified	>>>	43	anti-D	98 %
				1	anti-D; anti-Cw	2,3 %
Total per sample: n = 44		Success: 98 %				
Total success: 98 %						
(752) Antibody titre, Sample 1: 1st antibody						
E1 and S1 (0)		not specified	±	10	titre 16	31 %
			±	10	titre 32	31 %
			±	10	titre 64	31 %
			±	2	titre 128	6,3 %
Total per sample: n = 32		Success (only evaluated results): evaluation				
(753) Antibody titre, Sample 1: 2nd antibody						
E1 and S1 (0)		not specified	±	2	titre 4	6,3 %
			±	9	titre 8	28 %
			±	13	titre 16	41 %
			±	8	titre 32	25 %
Total per sample: n = 32		Success (only evaluated results): evaluation				
(756) Antibody titre, Sample 2: 1st antibody						
E2 and S2 (0)		not specified	±	9	titre 256	28 %
			±	4	titre 512	13 %
			±	1	titre 32	3,1 %
			±	5	titre 64	16 %
			±	13	titre 128	41 %
Total per sample: n = 32		Success (only evaluated results): evaluation				
Set 3						
(760) Crossmatch						
S1		All results	>>>	124	Crossmatch successful	100 %
		Total per sample: n = 124		Success: 100 %		
S2		All results	>>>	124	Crossmatch successful	100 %
		Total per sample: n = 124		Success: 100 %		
Total success: 100 %						
(761) Crossmatch (segment K1)						
S1		(0) not specified	>>>	124	Negative test	100 %
		Total per sample: n = 124		Success: 100 %		

Summary statistics - qualitative results

(Groups: manufacturer of kit)

EQA round: IH4/20 - Blood Group Serology

Deadline: 19.11.2020

Test	Sample	Group	N	Result	N _{rel}
	S2	(0) not specified	>>> 124	Positive test	100 %
	Total per sample: n = 124		Success: 100 %		
	Total success: 100 %				

(762) Serve transfusion product (segment K1)

S1	(0) not specified	± 1	Impossible, risk of haemolysis	0,81 %
		± 73	Decision depends on results of other tests not performed in our laboratory	59 %
		± 27	Only if more suitable products are not available	22 %
		± 23	Possible	19 %
	Total per sample: n = 124		Success (only evaluated results): evaluation	
S2	(0) not specified	± 124	Impossible, risk of haemolysis	100 %
	Total per sample: n = 124		Success (only evaluated results): evaluation	

(764) Crossmatch (segment K2)

S1	(0) not specified	>>> 124	Positive test	100 %	
	Total per sample: n = 124		Success: 100 %		
S2	(0) not specified	>>> 124	Negative test	100 %	
	Total per sample: n = 124		Success: 100 %		
	Total success: 100 %				

(765) Serve transfusion product (segment K2)

S1	(0) not specified	± 124	Impossible, risk of haemolysis	100 %
	Total per sample: n = 124		Success (only evaluated results): evaluation	
S2	(0) not specified	± 2	Impossible, risk of haemolysis	1,6 %
		± 68	Decision depends on results of other tests not performed in our laboratory	55 %
		± 4	Only if more suitable products are not available	3,2 %
		± 50	Possible	40 %
	Total per sample: n = 124		Success (only evaluated results): evaluation	

st_kl

End of report

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