

## EQA round: IH1/18 - Blood Group Serology

Key: &gt;&gt;&gt; ... marks correct (expected) result

&gt; ... 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 <sub>rel</sub>
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## Set of samples 1 and 2

## (700) AB0 blood group

E1 and S1 (0) not specified	>>>	2	Blood group: B	0,96 %
(6) APR	>>>	1	Blood group: B	0,48 %
(14) Bio-Rad	>>>	60	Blood group: B	29 %
(40) Ortho Clinical Diagnostics	>>>	8	Blood group: B	3,8 %
(52) Dynex	>>>	2	Blood group: B	0,96 %
(64) Exbio Olomouc	>>>	16	Blood group: B	7,7 %
(80) DiaMed	>>>	21	Blood group: B	10 %
(159) Grifols	>>>	34	Blood group: B	16 %
(171) Diagast	>>>	2	Blood group: B	0,96 %
(172) Immucor	>>>	38	Blood group: B	18 %
(173) Sanguin	>>>	11	Blood group: B	5,3 %
(174) IVT Imuno	>>>	7	Blood group: B	3,4 %
(203) ANTITOXIN	>>>	3	Blood group: B	1,4 %
(999) another manufacturer	>>>	3	Blood group: B	1,4 %
----- Total per sample: n = 208 -----		Success: 100 %	-----	

E2 and S2 (0) not specified	>>>	2	Blood group: 0	0,96 %
(6) APR	>>>	1	Blood group: 0	0,48 %
(14) Bio-Rad	>>>	60	Blood group: 0	29 %
(40) Ortho Clinical Diagnostics	>>>	8	Blood group: 0	3,8 %
(52) Dynex	>>>	2	Blood group: 0	0,96 %
(64) Exbio Olomouc	>>>	16	Blood group: 0	7,7 %
(80) DiaMed	>>>	21	Blood group: 0	10 %
(159) Grifols	>>>	34	Blood group: 0	16 %
(171) Diagast	>>>	2	Blood group: 0	0,96 %
(172) Immucor	>>>	38	Blood group: 0	18 %
(173) Sanguin	>>>	11	Blood group: 0	5,3 %
(174) IVT Imuno	>>>	7	Blood group: 0	3,4 %
(203) ANTITOXIN	>>>	3	Blood group: 0	1,4 %
(999) another manufacturer	>>>	3	Blood group: 0	1,4 %
----- Total per sample: n = 208 -----		Success: 100 %	-----	

Total success: 100 %

## (705) Rh D antigen (blood-donor)

E1 and S1 (0) not specified	>>>	2	Positive (RhD+)	1,5 %
(6) APR	>>>	2	Positive (RhD+)	1,5 %
(14) Bio-Rad	>>>	34	Positive (RhD+)	25 %
(40) Ortho Clinical Diagnostics	>>>	3	Positive (RhD+)	2,2 %
(52) Dynex	>>>	3	Positive (RhD+)	2,2 %
(64) Exbio Olomouc	>>>	4	Positive (RhD+)	2,9 %
(80) DiaMed	>>>	14	Positive (RhD+)	10 %
(159) Grifols	>>>	20	Positive (RhD+)	15 %
(170) Biotest	>>>	1	Positive (RhD+)	0,74 %
(171) Diagast	>>>	3	Positive (RhD+)	2,2 %
(172) Immucor	>>>	35	Positive (RhD+)	26 %
(173) Sanguin	>>>	5	Positive (RhD+)	3,7 %
(174) IVT Imuno	>>>	4	Positive (RhD+)	2,9 %
(203) ANTITOXIN	>>>	4	Positive (RhD+)	2,9 %
(999) another manufacturer	>>>	2	Positive (RhD+)	1,5 %
----- Total per sample: n = 136 -----		Success: 100 %	-----	

E2 and S2 (0) not specified	>>>	2	Positive (RhD+)	1,5 %
(6) APR	>>>	2	Positive (RhD+)	1,5 %
(14) Bio-Rad	>>>	34	Positive (RhD+)	25 %
(40) Ortho Clinical Diagnostics	>>>	3	Positive (RhD+)	2,2 %
(52) Dynex	>>>	3	Positive (RhD+)	2,2 %
(64) Exbio Olomouc	>>>	4	Positive (RhD+)	2,9 %
(80) DiaMed	>>>	14	Positive (RhD+)	10 %
(159) Grifols	>>>	20	Positive (RhD+)	15 %
(170) Biotest	>>>	1	Positive (RhD+)	0,74 %
(171) Diagast	>>>	3	Positive (RhD+)	2,2 %
(172) Immucor	>>>	35	Positive (RhD+)	26 %
(173) Sanguin	>>>	5	Positive (RhD+)	3,7 %
(174) IVT Imuno	>>>	4	Positive (RhD+)	2,9 %
(203) ANTITOXIN	>>>	4	Positive (RhD+)	2,9 %
(999) another manufacturer	>>>	2	Positive (RhD+)	1,5 %

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Dead line: 15.03.2018

## Test

Sample	Group	N	Result	N <sub>rel</sub>
Total per sample: n = 136		Success: 100 %		
Total success: 100 %				

**(709) Rh D antigen (recipient)**

E1 and S1 (0) not specified	>>>	2	Positive (RhD+)	1,0 %
(6) APR	>>>	2	Positive (RhD+)	1,0 %
(14) Bio-Rad	>>>	58	Positive (RhD+)	29 %
(40) Ortho Clinical Diagnostics	>>>	8	Positive (RhD+)	4,1 %
(52) Dynex	>>>	1	Positive (RhD+)	0,51 %
(64) Exbio Olomouc	>>>	12	Positive (RhD+)	6,1 %
(80) DiaMed	>>>	19	Positive (RhD+)	9,6 %
(159) Grifols	>>>	30	Positive (RhD+)	15 %
(170) Biotest	>>>	1	Positive (RhD+)	0,51 %
(171) Diagast	>>>	3	Positive (RhD+)	1,5 %
(172) Immucor	>>>	39	Positive (RhD+)	20 %
(173) Sanguin	>>>	9	Positive (RhD+)	4,6 %
(174) IVT Imuno	>>>	4	Positive (RhD+)	2,0 %
(203) ANTITOXIN	>>>	5	Positive (RhD+)	2,5 %
(999) another manufacturer	>>>	4	Positive (RhD+)	2,0 %
Total per sample: n = 197		Success: 100 %		

E2 and S2 (0) not specified	>>>	2	Positive (RhD+)	1,0 %
(6) APR	>>>	2	Positive (RhD+)	1,0 %
(14) Bio-Rad	>>>	58	Positive (RhD+)	29 %
(40) Ortho Clinical Diagnostics	>>>	8	Positive (RhD+)	4,1 %
(52) Dynex	>>>	1	Positive (RhD+)	0,51 %
(64) Exbio Olomouc	>>>	12	Positive (RhD+)	6,1 %
(80) DiaMed	>>>	19	Positive (RhD+)	9,6 %
(159) Grifols	>>>	30	Positive (RhD+)	15 %
(170) Biotest	>>>	1	Positive (RhD+)	0,51 %
(171) Diagast	>>>	3	Positive (RhD+)	1,5 %
(172) Immucor	>>>	39	Positive (RhD+)	20 %
(173) Sanguin	>>>	9	Positive (RhD+)	4,6 %
(174) IVT Imuno	>>>	4	Positive (RhD+)	2,0 %
(203) ANTITOXIN	>>>	5	Positive (RhD+)	2,5 %
(999) another manufacturer	>>>	4	Positive (RhD+)	2,0 %
Total per sample: n = 197		Success: 100 %		
Total success: 100 %				

**(715) Antigen C**

E1 and S1 (0) not specified	>>>	1	Positive	1,0 %
(14) Bio-Rad	>>>	35	Positive	36 %
(64) Exbio Olomouc	>>>	2	Positive	2,0 %
(80) DiaMed	>>>	9	Positive	9,2 %
(159) Grifols	>>>	20	Positive	20 %
(171) Diagast	>>>	1	Positive	1,0 %
(172) Immucor	>>>	18	Positive	18 %
(173) Sanguin	>>>	3	Positive	3,1 %
(174) IVT Imuno	>>>	2	Positive	2,0 %
(203) ANTITOXIN	>>>	5	Positive	5,1 %
(999) another manufacturer	>>>	2	Positive	2,0 %
Total per sample: n = 98		Success: 100 %		

E2 and S2 (0) not specified	>>>	1	Positive	1,0 %
(14) Bio-Rad	>>>	35	Positive	36 %
(64) Exbio Olomouc	>>>	2	Positive	2,0 %
(80) DiaMed	>>>	9	Positive	9,2 %
(159) Grifols	>>>	20	Positive	20 %
(171) Diagast	>>>	1	Positive	1,0 %
(172) Immucor	>>>	18	Positive	18 %
(173) Sanguin	>>>	3	Positive	3,1 %
(174) IVT Imuno	>>>	2	Positive	2,0 %
(203) ANTITOXIN	>>>	5	Positive	5,1 %
(999) another manufacturer	>>>	2	Positive	2,0 %
Total per sample: n = 98		Success: 100 %		
Total success: 100 %				

**(716) Antigen c**

E1 and S1 (0) not specified	>>>	1	Negative	1,0 %
(14) Bio-Rad	>>>	35	Negative	36 %
(64) Exbio Olomouc	>>>	2	Negative	2,0 %
(80) DiaMed	>>>	9	Negative	9,2 %
(159) Grifols	>>>	20	Negative	20 %
(171) Diagast	>>>	1	Negative	1,0 %

Test		N	Result	N <sub>rel</sub>
Sample	Group			
E1 and S1	(172) Immucor	>>> 18	Negative	18 %
	(173) Sanguin	>>> 3	Negative	3,1 %
	(174) IVT Imuno	>>> 2	Negative	2,0 %
	(203) ANTITOXIN	>>> 5	Negative	5,1 %
	(999) another manufacturer	>>> 2	Negative	2,0 %
Total per sample: n = 98		Success: 100 %	-	
E2 and S2	(0) not specified	>>> 1	Positive	1,0 %
	(14) Bio-Rad	>>> 35	Positive	36 %
	(64) Exbio Olomouc	>>> 2	Positive	2,0 %
	(80) DiaMed	>>> 9	Positive	9,2 %
	(159) Grifols	>>> 20	Positive	20 %
	(171) Diagast	>>> 1	Positive	1,0 %
	(172) Immucor	>>> 18	Positive	18 %
	(173) Sanguin	>>> 3	Positive	3,1 %
	(174) IVT Imuno	>>> 2	Positive	2,0 %
	(203) ANTITOXIN	>>> 5	Positive	5,1 %
	(999) another manufacturer	>>> 2	Positive	2,0 %
Total per sample: n = 98		Success: 100 %	-	
Total success: 100 %				

**(717) Antigen Cw**

E1 and S1	(14) Bio-Rad	>>> 17	Negative	23 %
	(64) Exbio Olomouc	>>> 4	Negative	5,4 %
	(80) DiaMed	>>> 2	Negative	2,7 %
	(159) Grifols	>>> 23	Negative	31 %
	(170) Biotest	>>> 1	Negative	1,4 %
	(172) Immucor	>>> 15	Negative	20 %
	(173) Sanguin	>>> 5	Negative	6,8 %
	(174) IVT Imuno	>>> 2	Negative	2,7 %
	(203) ANTITOXIN	>>> 4	Negative	5,4 %
	(999) another manufacturer	>>> 1	Negative	1,4 %
Total per sample: n = 74		Success: 100 %	-	
E2 and S2	(14) Bio-Rad	>>> 17	Negative	23 %
	(64) Exbio Olomouc	>>> 4	Negative	5,4 %
	(80) DiaMed	>>> 2	Negative	2,7 %
	(159) Grifols	>>> 23	Negative	31 %
	(170) Biotest	>>> 1	Negative	1,4 %
	(172) Immucor	>>> 15	Negative	20 %
	(173) Sanguin	>>> 5	Negative	6,8 %
	(174) IVT Imuno	>>> 2	Negative	2,7 %
	(203) ANTITOXIN	>>> 4	Negative	5,4 %
	(999) another manufacturer	>>> 1	Negative	1,4 %
Total per sample: n = 74		Success: 100 %	-	
Total success: 100 %				

**(718) Antigen E**

E1 and S1	(0) not specified	>>> 1	Negative	1,0 %
	(14) Bio-Rad	>>> 35	Negative	36 %
	(64) Exbio Olomouc	>>> 2	Negative	2,0 %
	(80) DiaMed	>>> 9	Negative	9,2 %
	(159) Grifols	>>> 20	Negative	20 %
	(171) Diagast	>>> 1	Negative	1,0 %
	(172) Immucor	>>> 18	Negative	18 %
	(173) Sanguin	>>> 3	Negative	3,1 %
	(174) IVT Imuno	>>> 2	Negative	2,0 %
	(203) ANTITOXIN	>>> 5	Negative	5,1 %
	(999) another manufacturer	>>> 2	Negative	2,0 %
Total per sample: n = 98		Success: 100 %	-	
E2 and S2	(0) not specified	>>> 1	Negative	1,0 %
	(14) Bio-Rad	>>> 35	Negative	36 %
	(64) Exbio Olomouc	>>> 2	Negative	2,0 %
	(80) DiaMed	>>> 9	Negative	9,2 %
	(159) Grifols	>>> 20	Negative	20 %
	(171) Diagast	>>> 1	Negative	1,0 %
	(172) Immucor	>>> 18	Negative	18 %
	(173) Sanguin	>>> 3	Negative	3,1 %
	(174) IVT Imuno	>>> 2	Negative	2,0 %
	(203) ANTITOXIN	>>> 5	Negative	5,1 %
	(999) another manufacturer	>>> 2	Negative	2,0 %
Total per sample: n = 98		Success: 100 %	-	

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## Test

Sample	Group	N	Result	N <sub>rel</sub>
Total success: 100 %				
<b>(719) Antigen e</b>				
E1 and S1 (0) not specified		>>> 1	Positive	1,0 %
(14) Bio-Rad		>>> 35	Positive	36 %
(64) Exbio Olomouc		>>> 2	Positive	2,0 %
(80) DiaMed		>>> 9	Positive	9,2 %
(159) Grifols		>>> 20	Positive	20 %
(171) Diagast		>>> 1	Positive	1,0 %
(172) Immucor		>>> 18	Positive	18 %
(173) Sanguin		>>> 3	Positive	3,1 %
(174) IVT Imuno		>>> 2	Positive	2,0 %
(203) ANTITOXIN		>>> 5	Positive	5,1 %
(999) another manufacturer		>>> 2	Positive	2,0 %
Total per sample: n = 98		Success: 100 %		
E2 and S2 (0) not specified		>>> 1	Positive	1,0 %
(14) Bio-Rad		>>> 35	Positive	36 %
(64) Exbio Olomouc		>>> 2	Positive	2,0 %
(80) DiaMed		>>> 9	Positive	9,2 %
(159) Grifols		>>> 20	Positive	20 %
(171) Diagast		>>> 1	Positive	1,0 %
(172) Immucor		>>> 18	Positive	18 %
(173) Sanguin		>>> 3	Positive	3,1 %
(174) IVT Imuno		>>> 2	Positive	2,0 %
(203) ANTITOXIN		>>> 5	Positive	5,1 %
(999) another manufacturer		>>> 2	Positive	2,0 %
Total per sample: n = 98		Success: 100 %		
Total success: 100 %				
<b>(720) Antigen K</b>				
E1 and S1 (0) not specified		>>> 2	Negative	1,9 %
(14) Bio-Rad		>>> 36	Negative	34 %
(64) Exbio Olomouc		>>> 3	Negative	2,9 %
(80) DiaMed		>>> 9	Negative	8,6 %
(159) Grifols		>>> 25	Negative	24 %
(171) Diagast		>>> 1	Negative	0,95 %
(172) Immucor		>>> 17	Negative	16 %
(173) Sanguin		>>> 3	Negative	2,9 %
(174) IVT Imuno		>>> 2	Negative	1,9 %
(203) ANTITOXIN		>>> 5	Negative	4,8 %
(999) another manufacturer		>>> 2	Negative	1,9 %
Total per sample: n = 105		Success: 100 %		
E2 and S2 (0) not specified		>>> 2	Negative	1,9 %
(14) Bio-Rad		>>> 36	Negative	34 %
(64) Exbio Olomouc		>>> 3	Negative	2,9 %
(80) DiaMed		>>> 9	Negative	8,6 %
(159) Grifols		>>> 25	Negative	24 %
(171) Diagast		>>> 1	Negative	0,95 %
(172) Immucor		>>> 17	Negative	16 %
(173) Sanguin		>>> 3	Negative	2,9 %
(174) IVT Imuno		>>> 2	Negative	1,9 %
(203) ANTITOXIN		>>> 5	Negative	4,8 %
(999) another manufacturer		>>> 2	Negative	1,9 %
Total per sample: n = 105		Success: 100 %		
Total success: 100 %				
<b>(721) Antigen k</b>				
E1 and S1 (14) Bio-Rad		>>> 8	Positive	15 %
(64) Exbio Olomouc		>>> 6	Positive	11 %
(80) DiaMed		>>> 2	Positive	3,7 %
(159) Grifols		>>> 13	Positive	24 %
(172) Immucor		>>> 14	Positive	26 %
(173) Sanguin		>>> 8	Positive	15 %
(174) IVT Imuno		>>> 1	Positive	1,9 %
(203) ANTITOXIN		>>> 1	Positive	1,9 %
(999) another manufacturer		>>> 1	Positive	1,9 %
Total per sample: n = 54		Success: 100 %		
E2 and S2 (14) Bio-Rad		>>> 8	Positive	15 %
(64) Exbio Olomouc		>>> 6	Positive	11 %
(80) DiaMed		>>> 2	Positive	3,7 %
(159) Grifols		>>> 13	Positive	24 %
(172) Immucor		>>> 14	Positive	26 %

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Test			N	Result	N <sub>rel</sub>
Sample	Group				
E2 and S2 (173)	Sanguin	>>>	8	Positive	15 %
(174)	IVT Imuno	>>>	1	Positive	1,9 %
(203)	ANTITOXIN	>>>	1	Positive	1,9 %
(999)	another manufacturer	>>>	1	Positive	1,9 %
Total per sample: n = 54		Success: 100 %			
Total success: 100 %					
<b>(722) Antigen M</b>					
E1 and S1 (14)	Bio-Rad	>>>	12	Negative	23 %
(52)	Dynex	>>>	1	Negative	1,9 %
(64)	Exbio Olomouc	>>>	2	Negative	3,8 %
(80)	DiaMed	>>>	4	Negative	7,7 %
(159)	Grifols	>>>	12	Negative	23 %
(172)	Immucor	>>>	10	Negative	19 %
(173)	Sanguin	>>>	6	Negative	12 %
(174)	IVT Imuno	>>>	1	Negative	1,9 %
(203)	ANTITOXIN	>>>	4	Negative	7,7 %
Total per sample: n = 52		Success: 100 %			
E2 and S2 (14)	Bio-Rad	>>>	12	Positive	23 %
(52)	Dynex	>>>	1	Positive	1,9 %
(64)	Exbio Olomouc	>>>	2	Positive	3,8 %
(80)	DiaMed	>>>	4	Positive	7,7 %
(159)	Grifols	>>>	12	Positive	23 %
(172)	Immucor	>>>	10	Positive	19 %
(173)	Sanguin	>>>	6	Positive	12 %
(174)	IVT Imuno	>>>	1	Positive	1,9 %
(203)	ANTITOXIN	>>>	4	Positive	7,7 %
Total per sample: n = 52		Success: 100 %			
Total success: 100 %					
<b>(723) Antigen N</b>					
E1 and S1 (14)	Bio-Rad	>>>	11	Positive	22 %
(52)	Dynex	>>>	1	Positive	2,0 %
(64)	Exbio Olomouc	>>>	2	Positive	4,1 %
(80)	DiaMed	>>>	4	Positive	8,2 %
(159)	Grifols	>>>	13	Positive	27 %
(172)	Immucor	>>>	8	Positive	16 %
(173)	Sanguin	>>>	5	Positive	10 %
(174)	IVT Imuno	>>>	1	Positive	2,0 %
(203)	ANTITOXIN	>>>	4	Positive	8,2 %
Total per sample: n = 49		Success: 100 %			
E2 and S2 (14)	Bio-Rad	>>>	11	Negative	22 %
(52)	Dynex	>>>	1	Negative	2,0 %
(64)	Exbio Olomouc	>>>	2	Negative	4,1 %
(80)	DiaMed	>>>	4	Negative	8,2 %
(159)	Grifols	>>>	12	Negative	24 %
(172)	Immucor	>>>	1	Positive	2,0 %
(172)	Immucor	>>>	6	Negative	12 %
(172)	Immucor	>>>	2	Positive	4,1 %
(173)	Sanguin	>>>	5	Negative	10 %
(174)	IVT Imuno	>>>	1	Negative	2,0 %
(203)	ANTITOXIN	>>>	4	Negative	8,2 %
Total per sample: n = 49		Success: 94 %			
Total success: 94 %					
<b>(724) Antigen S</b>					
E1 and S1 (14)	Bio-Rad	>>>	13	Positive	25 %
(52)	Dynex	>>>	1	Positive	2,0 %
(64)	Exbio Olomouc	>>>	2	Positive	3,9 %
(80)	DiaMed	>>>	5	Positive	9,8 %
(159)	Grifols	>>>	11	Positive	22 %
(172)	Immucor	>>>	1	Negative	2,0 %
(172)	Immucor	>>>	7	Positive	14 %
(173)	Sanguin	>>>	5	Positive	9,8 %
(174)	IVT Imuno	>>>	2	Positive	3,9 %
(203)	ANTITOXIN	>>>	4	Positive	7,8 %
Total per sample: n = 51		Success: 98 %			
E2 and S2 (14)	Bio-Rad	>>>	13	Positive	25 %
(52)	Dynex	>>>	1	Positive	2,0 %
(64)	Exbio Olomouc	>>>	2	Positive	3,9 %
(80)	DiaMed	>>>	5	Positive	9,8 %

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Test			N	Result	N <sub>rel</sub>
Sample	Group				
E2 and S2 (159)	Grifols	>>>	11	Positive	22 %
(172)	Immucor	>>>	8	Positive	16 %
(173)	Sanguin	>>>	5	Positive	9,8 %
(174)	IVT Imuno	>>>	2	Positive	3,9 %
(203)	ANTITOXIN	>>>	4	Positive	7,8 %
Total per sample: n = 51		Success: 100 %			
Total success: 98 %					

## (725) Antigen s

E1 and S1 (14)	Bio-Rad	>>>	13	Positive	25 %
(64)	Exbio Olomouc	>>>	3	Positive	5,9 %
(80)	DiaMed	>>>	5	Positive	9,8 %
(159)	Grifols	>>>	11	Positive	22 %
(172)	Immucor	>>>	7	Positive	14 %
(173)	Sanguin	>>>	6	Positive	12 %
(174)	IVT Imuno	>>>	2	Positive	3,9 %
(203)	ANTITOXIN	>>>	1	Negative	2,0 %
		>>>	3	Positive	5,9 %
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	>>>	5	Negative	9,8 %
(159)	Grifols	>>>	11	Negative	22 %
(172)	Immucor	>>>	7	Negative	14 %
(173)	Sanguin	>>>	6	Negative	12 %
(174)	IVT Imuno	>>>	2	Negative	3,9 %
(203)	ANTITOXIN	>>>	4	Negative	7,8 %
Total per sample: n = 51		Success: 100 %			
Total success: 98 %					

## (726) Antigen P1

E1 and S1 (14)	Bio-Rad	>>>	10	Positive	26 %
(64)	Exbio Olomouc	>>>	3	Positive	7,7 %
(80)	DiaMed	>>>	2	Positive	5,1 %
(159)	Grifols	>>>	9	Positive	23 %
(172)	Immucor	>>>	5	Positive	13 %
(173)	Sanguin	>>>	8	Positive	21 %
(203)	ANTITOXIN	>>>	2	Positive	5,1 %
Total per sample: n = 39		Success: 100 %			
E2 and S2 (14)	Bio-Rad	>>>	10	Positive	26 %
(64)	Exbio Olomouc	>>>	3	Positive	7,7 %
(80)	DiaMed	>>>	2	Positive	5,1 %
(159)	Grifols	>>>	9	Positive	23 %
(172)	Immucor	>>>	5	Positive	13 %
(173)	Sanguin	>>>	8	Positive	21 %
(203)	ANTITOXIN	>>>	2	Positive	5,1 %
Total per sample: n = 39		Success: 100 %			
Total success: 100 %					

## (727) Antigen Fya

E1 and S1 (14)	Bio-Rad	>>>	13	Positive	25 %
(64)	Exbio Olomouc	>>>	3	Positive	5,8 %
(80)	DiaMed	>>>	3	Positive	5,8 %
(159)	Grifols	>>>	13	Positive	25 %
(172)	Immucor	>>>	8	Positive	15 %
(173)	Sanguin	>>>	7	Positive	13 %
(174)	IVT Imuno	>>>	1	Positive	1,9 %
(203)	ANTITOXIN	>>>	4	Positive	7,7 %
Total per sample: n = 52		Success: 100 %			
E2 and S2 (14)	Bio-Rad	>>>	13	Negative	25 %
(64)	Exbio Olomouc	>>>	3	Negative	5,8 %
(80)	DiaMed	>>>	3	Negative	5,8 %
(159)	Grifols	>>>	13	Negative	25 %
(172)	Immucor	>>>	8	Negative	15 %
(173)	Sanguin	>>>	7	Negative	13 %
(174)	IVT Imuno	>>>	1	Negative	1,9 %
(203)	ANTITOXIN	>>>	4	Negative	7,7 %
Total per sample: n = 52		Success: 100 %			
Total success: 100 %					

## (728) Antigen Fyb

## EQA round: IH1/18 - Blood Group Serology

Dead line: 15.03.2018

Test			N	Result	N <sub>rel</sub>
Sample	Group				
E1 and S1 (14)	Bio-Rad	>>>	13	Positive	25 %
(64)	Exbio Olomouc	>>>	4	Positive	7,7 %
(80)	DiaMed	>>>	3	Positive	5,8 %
(159)	Grifols	>>>	13	Positive	25 %
(172)	Immucor	>>>	8	Positive	15 %
(173)	Sanguin	>>>	7	Positive	13 %
(174)	IVT Imuno	>>>	1	Positive	1,9 %
(203)	ANTITOXIN		1	Negative	1,9 %
		>>>	2	Positive	3,8 %
Total per sample: n = 52		Success: 98 %			
E2 and S2 (14)	Bio-Rad	>>>	13	Positive	25 %
(64)	Exbio Olomouc	>>>	4	Positive	7,7 %
(80)	DiaMed	>>>	3	Positive	5,8 %
(159)	Grifols	>>>	13	Positive	25 %
(172)	Immucor	>>>	8	Positive	15 %
(173)	Sanguin	>>>	7	Positive	13 %
(174)	IVT Imuno	>>>	1	Positive	1,9 %
(203)	ANTITOXIN	>>>	3	Positive	5,8 %
Total per sample: n = 52		Success: 100 %			
Total success: 98 %					
<b>(729) Antigen Jka</b>					
E1 and S1 (14)	Bio-Rad	>>>	12	Positive	25 %
(52)	Dynex	>>>	2	Positive	4,2 %
(64)	Exbio Olomouc	>>>	2	Positive	4,2 %
(80)	DiaMed	>>>	4	Positive	8,3 %
(159)	Grifols	>>>	12	Positive	25 %
(172)	Immucor	>>>	6	Positive	13 %
(173)	Sanguin	>>>	6	Positive	13 %
(203)	ANTITOXIN	>>>	4	Positive	8,3 %
Total per sample: n = 48		Success: 100 %			
E2 and S2 (14)	Bio-Rad	>>>	12	Positive	25 %
(52)	Dynex	>>>	2	Positive	4,2 %
(64)	Exbio Olomouc	>>>	2	Positive	4,2 %
(80)	DiaMed	>>>	4	Positive	8,3 %
(159)	Grifols	>>>	12	Positive	25 %
(172)	Immucor	>>>	6	Positive	13 %
(173)	Sanguin	>>>	6	Positive	13 %
(203)	ANTITOXIN	>>>	4	Positive	8,3 %
Total per sample: n = 48		Success: 100 %			
Total success: 100 %					
<b>(730) Antigen Jkb</b>					
E1 and S1 (14)	Bio-Rad	>>>	11	Positive	23 %
(52)	Dynex	>>>	1	Positive	2,1 %
(64)	Exbio Olomouc	>>>	3	Positive	6,4 %
(80)	DiaMed	>>>	4	Positive	8,5 %
(159)	Grifols	>>>	12	Positive	26 %
(172)	Immucor	>>>	7	Positive	15 %
(173)	Sanguin	>>>	5	Positive	11 %
(174)	IVT Imuno	>>>	1	Positive	2,1 %
(203)	ANTITOXIN	>>>	3	Positive	6,4 %
Total per sample: n = 47		Success: 100 %			
E2 and S2 (14)	Bio-Rad	>>>	11	Positive	23 %
(52)	Dynex	>>>	1	Positive	2,1 %
(64)	Exbio Olomouc	>>>	3	Positive	6,4 %
(80)	DiaMed	>>>	4	Positive	8,5 %
(159)	Grifols	>>>	12	Positive	26 %
(172)	Immucor	>>>	7	Positive	15 %
(173)	Sanguin	>>>	5	Positive	11 %
(174)	IVT Imuno	>>>	1	Positive	2,1 %
(203)	ANTITOXIN	>>>	3	Positive	6,4 %
Total per sample: n = 47		Success: 100 %			
Total success: 100 %					
<b>(731) Antigen Lua</b>					
E1 and S1 (14)	Bio-Rad	>>>	9	Negative	24 %
(64)	Exbio Olomouc	>>>	2	Negative	5,4 %
(80)	DiaMed	>>>	1	Negative	2,7 %
(159)	Grifols	>>>	13	Negative	35 %
(172)	Immucor	>>>	2	Negative	5,4 %

## EQA round: IH1/18 - Blood Group Serology

Dead line: 15.03.2018

Test			N	Result	N <sub>rel</sub>
Sample	Group				
E1 and S1 (173)	Sanguin	>>>	5	Negative	14 %
	(174) IVT Imuno	>>>	1	Negative	2,7 %
	(203) ANTITOXIN	>>>	2	Negative	5,4 %
	(999) another manufacturer	>>>	2	Negative	5,4 %
	Total per sample: n = 37		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>>	9	Positive	24 %
	(64) Exbio Olomouc	>>>	2	Positive	5,4 %
	(80) DiaMed	>>>	1	Positive	2,7 %
	(159) Grifols	>>>	13	Positive	35 %
	(172) Immucor	>>>	2	Positive	5,4 %
	(173) Sanguin	>>>	5	Positive	14 %
	(174) IVT Imuno	>>>	1	Positive	2,7 %
	(203) ANTITOXIN	>>>	2	Positive	5,4 %
	(999) another manufacturer	>>>	2	Positive	5,4 %
	Total per sample: n = 37		Success: 100 %		
Total success: 100 %					

**(732) Antigen Lub**

E1 and S1 (14)	Bio-Rad	>>>	7	Positive	21 %
	(52) Dynex	>>>	1	Positive	3,0 %
	(64) Exbio Olomouc	>>>	1	Positive	3,0 %
	(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 %		
E2 and S2 (14)	Bio-Rad	>>>	7	Positive	21 %
	(52) Dynex	>>>	1	Positive	3,0 %
	(64) Exbio Olomouc	>>>	1	Positive	3,0 %
	(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: 100 %					

**(733) Antigen Lea**

E1 and S1 (14)	Bio-Rad	>>>	13	Negative	31 %
	(52) Dynex	>>>	1	Negative	2,4 %
	(64) Exbio Olomouc	>>>	2	Negative	4,8 %
	(80) DiaMed	>>>	2	Negative	4,8 %
	(159) Grifols	>>>	8	Negative	19 %
	(172) Immucor	>>>	6	Negative	14 %
	(173) Sanguin	>>>	5	Negative	12 %
	(174) IVT Imuno	>>>	1	Negative	2,4 %
	(203) ANTITOXIN	>>>	3	Negative	7,1 %
	(999) another manufacturer	>>>	1	Negative	2,4 %
	Total per sample: n = 42		Success: 100 %		
E2 and S2 (14)	Bio-Rad	>>>	13	Negative	31 %
	(52) Dynex	>>>	1	Negative	2,4 %
	(64) Exbio Olomouc	>>>	2	Negative	4,8 %
	(80) DiaMed	>>>	2	Negative	4,8 %
	(159) Grifols	>>>	8	Negative	19 %
	(172) Immucor	>>>	6	Negative	14 %
	(173) Sanguin	>>>	5	Negative	12 %
	(174) IVT Imuno	>>>	1	Negative	2,4 %
	(203) ANTITOXIN	>>>	3	Negative	7,1 %
	(999) another manufacturer	>>>	1	Negative	2,4 %
Total per sample: n = 42		Success: 100 %			
Total success: 100 %					

**(734) Antigen Leb**

E1 and S1 (14)	Bio-Rad	>>>	11	Negative	27 %
			2	Positive	4,9 %
	(52) Dynex	>>>	1	Negative	2,4 %
	(64) Exbio Olomouc	>>>	2	Negative	4,9 %
	(80) DiaMed	>>>	2	Negative	4,9 %



## EQA round: IH1/18 - Blood Group Serology

Dead line: 15.03.2018

Test			N	Result	N <sub>rel</sub>
Sample	Group				
E1 and S1 (159)	Grifols	>>>	8	Negative	20 %
	(172) Immucor	>>>	6	Negative	15 %
	(173) Sanguin	>>>	4	Negative	9,8 %
	(174) IVT Imuno	>>>	1	Negative	2,4 %
	(203) ANTITOXIN	>>>	3	Negative	7,3 %
	(999) another manufacturer	>>>	1	Negative	2,4 %
	Total per sample: n = 41		Success: 95 %		
E2 and S2 (14)	Bio-Rad	>>>	13	Positive	32 %
	(52) Dynex	>>>	1	Positive	2,4 %
	(64) Exbio Olomouc	>>>	2	Positive	4,9 %
	(80) DiaMed	>>>	2	Positive	4,9 %
	(159) Grifols	>>>	8	Positive	20 %
	(172) Immucor	>>>	6	Positive	15 %
	(173) Sanguin	>>>	4	Positive	9,8 %
	(174) IVT Imuno	>>>	1	Positive	2,4 %
	(203) ANTITOXIN	>>>	3	Positive	7,3 %
	(999) another manufacturer	>>>	1	Positive	2,4 %
Total per sample: n = 41		Success: 100 %			
Total success: 95 %					

**(737) Direct Coombs (antiglobulin) test**

E1 and S1 (0) not specified		>>>	1	Negative	0,63 %
	(14) Bio-Rad	>>>	83	Negative	52 %
			1	Positive	0,63 %
	(40) Ortho Clinical Diagnostics	>>>	8	Negative	5,0 %
	(64) Exbio Olomouc	>>>	4	Negative	2,5 %
	(80) DiaMed	>>>	30	Negative	19 %
			1	Positive	0,63 %
	(159) Grifols	>>>	29	Negative	18 %
	(172) Immucor	>>>	1	Negative	0,63 %
	(203) ANTITOXIN	>>>	1	Negative	0,63 %
Total per sample: n = 159		Success: 99 %			
E2 and S2 (0) not specified		>>>	1	Negative	0,63 %
	(14) Bio-Rad	>>>	82	Negative	52 %
			2	Positive	1,3 %
	(40) Ortho Clinical Diagnostics	>>>	8	Negative	5,0 %
	(64) Exbio Olomouc	>>>	4	Negative	2,5 %
	(80) DiaMed	>>>	30	Negative	19 %
			1	Positive	0,63 %
	(159) Grifols	>>>	29	Negative	18 %
	(172) Immucor	>>>	1	Negative	0,63 %
	(203) ANTITOXIN	>>>	1	Negative	0,63 %
Total per sample: n = 159		Success: 98 %			
Total success: 98 %					

**(741) Antibody screening (IAT, blood donor)**

E1 and S1 (0) not specified		>>>	1	Positive	0,89 %
	(6) APR	>>>	1	Positive	0,89 %
	(14) Bio-Rad	>>>	46	Positive	41 %
	(40) Ortho Clinical Diagnostics	>>>	3	Positive	2,7 %
	(64) Exbio Olomouc	>>>	1	Positive	0,89 %
	(80) DiaMed	>>>	25	Positive	22 %
	(159) Grifols	>>>	17	Positive	15 %
	(171) Diagast	>>>	2	Positive	1,8 %
	(172) Immucor	>>>	16	Positive	14 %
	Total per sample: n = 112		Success: 100 %		
E2 and S2 (0) not specified		>>>	1	Positive	0,89 %
	(6) APR	>>>	1	Positive	0,89 %
	(14) Bio-Rad	>>>	2	Negative	1,8 %
			44	Positive	39 %
	(40) Ortho Clinical Diagnostics	>>>	3	Positive	2,7 %
	(64) Exbio Olomouc	>>>	1	Positive	0,89 %
	(80) DiaMed	>>>	25	Positive	22 %
	(159) Grifols	>>>	17	Positive	15 %
	(171) Diagast	>>>	2	Positive	1,8 %
	(172) Immucor	>>>	16	Positive	14 %
Total per sample: n = 112		Success: 98 %			
Total success: 98 %					

**(743) Antibody screening (IAT, recipient)**

E1 and S1 (0) not specified		>>>	1	Positive	0,56 %
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## EQA round: IH1/18 - Blood Group Serology

Test		N	Result	N <sub>rel</sub>
Sample	Group			
E1 and S1 (14)	Bio-Rad	>>> 89	Positive	50 %
	(40) Ortho Clinical Diagnostics	>>> 8	Positive	4,5 %
	(80) DiaMed	>>> 34	Positive	19 %
	(159) Grifols	>>> 35	Positive	20 %
	(172) Immucor	>>> 10	Positive	5,6 %
	Total per sample: n = 177		Success: 100 %	-
E2 and S2 (0) not specified		>>> 1	Positive	0,56 %
	(14) Bio-Rad		Negative	0,56 %
		>>> 88	Positive	50 %
	(40) Ortho Clinical Diagnostics	>>> 8	Positive	4,5 %
	(80) DiaMed	>>> 34	Positive	19 %
	(159) Grifols	>>> 35	Positive	20 %
	(172) Immucor	>>> 10	Positive	5,6 %
Total per sample: n = 177		Success: 99 %	-	
Total success: 99 %				

## (745) Antibody screening (IAT, pregnant)

E1 and S1 (14)	Bio-Rad	>>> 64	Positive	44 %
	(40) Ortho Clinical Diagnostics	>>> 7	Positive	4,8 %
	(64) Exbio Olomouc	>>> 1	Positive	0,68 %
	(80) DiaMed	>>> 31	Positive	21 %
	(159) Grifols	>>> 34	Positive	23 %
	(172) Immucor	>>> 10	Positive	6,8 %
Total per sample: n = 147		Success: 100 %	-	
E2 and S2 (14)	Bio-Rad	>>> 64	Positive	44 %
	(40) Ortho Clinical Diagnostics	>>> 7	Positive	4,8 %
	(64) Exbio Olomouc	>>> 1	Positive	0,68 %
	(80) DiaMed	>>> 31	Positive	21 %
	(159) Grifols	>>> 34	Positive	23 %
	(172) Immucor	>>> 10	Positive	6,8 %
Total per sample: n = 147		Success: 100 %	-	
Total success: 100 %				

## (747) Antibody screening (enzyme test)

E1 and S1 (0) not specified		>>> 1	Positive	0,79 %
	(14) Bio-Rad	>>> 56	Positive	44 %
	(40) Ortho Clinical Diagnostics	>>> 3	Positive	2,4 %
	(80) DiaMed		Negative	0,79 %
		>>> 24	Positive	19 %
	(159) Grifols	>>> 37	Positive	29 %
	(172) Immucor		Negative	0,79 %
	>>> 3	Positive	2,4 %	
Total per sample: n = 126		Success: 98 %	-	
E2 and S2 (0) not specified		>>> 1	Negative	0,79 %
	(14) Bio-Rad	>>> 46	Negative	37 %
		> 10	Positive	7,9 %
	(40) Ortho Clinical Diagnostics	> 3	Positive	2,4 %
	(80) DiaMed	>>> 17	Negative	13 %
		> 8	Positive	6,3 %
	(159) Grifols	>>> 36	Negative	29 %
		> 1	Positive	0,79 %
	(172) Immucor	>>> 3	Negative	2,4 %
		> 1	Positive	0,79 %
Total per sample: n = 126		Success: 100 %	-	
Total success: 98 %				

## (750) Antibody identification

E1 and S1 (0) not specified		2	anti-K	3,4 %
		1	anti-K; anti-Lua	1,7 %
	>>>	56	anti-K; anti-M	95 %
Total per sample: n = 59		Success: 95 %	-	
E2 and S2 (0) not specified		>>> 59	anti-s	100 %
Total per sample: n = 59		Success: 100 %	-	
Total success: 95 %				

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

E1 and S1 (0) not specified		± 4	titre 256	8,5 %
		± 1	titre 2	2,1 %
		± 1	titre 4	2,1 %
		± 1	titre 8	2,1 %
		± 1	titre 32	2,1 %
		± 15	titre 64	32 %

## Test

Sample	Group	N	Result	N <sub>rel</sub>
E1 and S1 (0) not specified		± 24	titre 128	51 %
Total per sample: n = 47		Success (only evaluated results): evaluation		

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

E1 and S1 (0) not specified		± 3	titre 0 (not measurable)	6,4 %
		± 13	titre 1	28 %
		± 20	titre 2	43 %
		± 6	titre 4	13 %
		± 2	titre 8	4,3 %
		± 2	titre 64	4,3 %
		± 1	titre 128	2,1 %
Total per sample: n = 47		Success (only evaluated results): evaluation		

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

E2 and S2 (0) not specified		± 1	titre 0 (not measurable)	1,9 %
		± 3	titre 1	5,8 %
		± 18	titre 2	35 %
		± 28	titre 4	54 %
		± 2	titre 8	3,8 %
Total per sample: n = 52		Success (only evaluated results): evaluation		

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

S1	All results	1	Crossmatch not successful	0,69 %
		>>> 144	Crossmatch successful	99 %
Total per sample: n = 145		Success: 99 %		
S2	All results	1	Crossmatch not successful	0,69 %
		>>> 144	Crossmatch successful	99 %
Total per sample: n = 145		Success: 99 %		
Total success: 99 %				

**(761) Crossmatch (segment K1)**

S1	(0) not specified	> 102	Negative test	70 %
		>>> 43	Positive test	30 %
Total per sample: n = 145		Success: 100 %		
S2	(0) not specified	>>> 144	Negative test	99 %
		1	Positive test	0,69 %
Total per sample: n = 145		Success: 99 %		
Total success: 99 %				

**(762) Serve transfusion product (segment K1)**

S1	(0) not specified	± 65	Impossible, risk of haemolysis	45 %
		± 56	Decision depends on results of other tests not performed in our laboratory	39 %
		± 15	Only if more suitable products are not available	10 %
		± 9	Possible	6,2 %
Total per sample: n = 145		Success (only evaluated results): evaluation		
S2	(0) not specified	± 2	Impossible, risk of haemolysis	1,4 %
		± 75	Decision depends on results of other tests not performed in our laboratory	52 %
		± 6	Only if more suitable products are not available	4,1 %
		± 62	Possible	43 %
Total per sample: n = 145		Success (only evaluated results): evaluation		

**(764) Crossmatch (segment K2)**

S1	(0) not specified	>>> 144	Negative test	99 %
		1	Positive test	0,69 %
Total per sample: n = 145		Success: 99 %		
S2	(0) not specified	1	Negative test	0,69 %
		>>> 144	Positive test	99 %
Total per sample: n = 145		Success: 99 %		
Total success: 99 %				

**(765) Serve transfusion product (segment K2)**

S1	(0) not specified	± 2	Impossible, risk of haemolysis	1,4 %
		± 74	Decision depends on results of other tests not performed in our laboratory	51 %
		± 53	Only if more suitable products are not available	37 %
		± 16	Possible	11 %
Total per sample: n = 145		Success (only evaluated results): evaluation		
S2	(0) not specified	± 143	Impossible, risk of haemolysis	99 %
		± 2	Decision depends on results of other tests not performed in our laboratory	1,4 %
Total per sample: n = 145		Success (only evaluated results): evaluation		

**Summary statistics - qualitative results**

(Groups: manufacturer of kit)

**EQA round: IH1/18 - Blood Group Serology**

Dead line: 15.03.2018

**Test**

Sample	Group	N	Result	N <sub>rel</sub>
st_kl			End of report	

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