

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: groups - R (manufacturer of kit)

AV = assigned value

N_{tot} = total number of the resultsN_{eva} = number of the results assessed

RV = reference value

N_{rel} = relative number of the resultsN_{suc} = number of successful results

>>> ... expected result

S_{rel} = relative success

> ... acceptable result

± ... result not assessed

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
Set 1 and 2							
(700) ABO blood group		173			173	170	98
Samples E1 and S1		173			173	170	98
(6) APR	RV >>>	2	1,2	Blood group: A			
(14) Bio-Rad		1	0,6	Not specified			
	RV >>>	53	31	Blood group: A			
		1	0,6	Blood group: B			
(40) Ortho Clinical Diagnostics	RV >>>	1	0,6	Blood group: A			
(52) Dynex	RV >>>	1	0,6	Blood group: A			
(64) Exbio Olomouc	RV >>>	9	5,2	Blood group: A			
(80) DiaMed	RV >>>	13	7,5	Blood group: A			
(159) Grifols	RV >>>	50	29	Blood group: A			
(172) Immucor	RV >>>	25	14	Blood group: A			
(173) Sanguin	RV >>>	7	4	Blood group: A			
(174) IVT Imuno	RV >>>	4	2,3	Blood group: A			
		1	0,6	Blood group: B			
(203) ANTITOXIN	RV >>>	2	1,2	Blood group: A			
(999) another manufacturer	RV >>>	3	1,7	Blood group: A			
Samples E2 and S2		173			173	171	99
(6) APR	RV >>>	2	1,2	Blood group: B			
(14) Bio-Rad		1	0,6	Blood group: A			
	RV >>>	54	31	Blood group: B			
(40) Ortho Clinical Diagnostics	RV >>>	1	0,6	Blood group: B			
(52) Dynex	RV >>>	1	0,6	Blood group: B			
(64) Exbio Olomouc	RV >>>	9	5,2	Blood group: B			
(80) DiaMed	RV >>>	13	7,5	Blood group: B			
(159) Grifols	RV >>>	50	29	Blood group: B			
(172) Immucor	RV >>>	25	14	Blood group: B			
(173) Sanguin	RV >>>	7	4	Blood group: B			
(174) IVT Imuno		1	0,6	Blood group: A			
	RV >>>	4	2,3	Blood group: B			
(203) ANTITOXIN	RV >>>	2	1,2	Blood group: B			
(999) another manufacturer	RV >>>	3	1,7	Blood group: B			
(703) A subgroup		50			50	49	98
Samples E1 and S1		50			50	49	98
(0) not specified		1	2	A subgroup A1			
	RV >>>	49	98	A subgroup A2			
Samples E2 and S2		50			50	50	100
(0) not specified	RV >>>	50	100	Not specified			
(705) RhD antigen (blood-donor)		97			97	97	100
Samples E1 and S1		97			97	97	100
(6) APR	RV >>>	5	5,2	Positive (RhD+)			
(14) Bio-Rad	RV >>>	30	31	Positive (RhD+)			
(52) Dynex	RV >>>	1	1	Positive (RhD+)			
(64) Exbio Olomouc	RV >>>	5	5,2	Positive (RhD+)			
(80) DiaMed	RV >>>	3	3,1	Positive (RhD+)			
(159) Grifols	RV >>>	25	26	Positive (RhD+)			
(172) Immucor	RV >>>	21	22	Positive (RhD+)			
(173) Sanguin	RV >>>	1	1	Positive (RhD+)			
(174) IVT Imuno	RV >>>	3	3,1	Positive (RhD+)			
(203) ANTITOXIN	RV >>>	2	2,1	Positive (RhD+)			
(999) another manufacturer	RV >>>	1	1	Positive (RhD+)			
Samples E2 and S2		97			97	97	100
(6) APR	RV >>>	5	5,2	Positive (RhD+)			
(14) Bio-Rad	RV >>>	30	31	Positive (RhD+)			
(52) Dynex	RV >>>	1	1	Positive (RhD+)			
(64) Exbio Olomouc	RV >>>	5	5,2	Positive (RhD+)			
(80) DiaMed	RV >>>	3	3,1	Positive (RhD+)			
(159) Grifols	RV >>>	25	26	Positive (RhD+)			
(172) Immucor	RV >>>	21	22	Positive (RhD+)			
(173) Sanguin	RV >>>	1	1	Positive (RhD+)			
(174) IVT Imuno	RV >>>	3	3,1	Positive (RhD+)			
(203) ANTITOXIN	RV >>>	2	2,1	Positive (RhD+)			
(999) another manufacturer	RV >>>	1	1	Positive (RhD+)			

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(709) RhD antigen (recipient/ pregnant/ newborn)		167			167	167	100	
Samples E1 and S1		167			167	167	100	
(6) APR	RV >>>	2	1,2	Positive (RhD+)				
(14) Bio-Rad	RV >>>	52	31	Positive (RhD+)				
(40) Ortho Clinical Diagnostics	RV >>>	1	0,6	Positive (RhD+)				
(50) Merck	RV >>>	1	0,6	Positive (RhD+)				
(52) Dynex	RV >>>	1	0,6	Positive (RhD+)				
(64) Exbio Olomouc	RV >>>	10	6	Positive (RhD+)				
(80) DiaMed	RV >>>	11	6,6	Positive (RhD+)				
(159) Grifols	RV >>>	47	28	Positive (RhD+)				
(171) Diagast	RV >>>	1	0,6	Positive (RhD+)				
(172) Immucor	RV >>>	27	16	Positive (RhD+)				
(173) Sanguin	RV >>>	4	2,4	Positive (RhD+)				
(174) IVT Imuno	RV >>>	4	2,4	Positive (RhD+)				
(203) ANTITOXIN	RV >>>	2	1,2	Positive (RhD+)				
(999) another manufacturer	RV >>>	4	2,4	Positive (RhD+)				
Samples E2 and S2		167			167	167	100	
(6) APR	RV >>>	2	1,2	Positive (RhD+)				
(14) Bio-Rad	RV >>>	52	31	Positive (RhD+)				
(40) Ortho Clinical Diagnostics	RV >>>	1	0,6	Positive (RhD+)				
(50) Merck	RV >>>	1	0,6	Positive (RhD+)				
(52) Dynex	RV >>>	1	0,6	Positive (RhD+)				
(64) Exbio Olomouc	RV >>>	10	6	Positive (RhD+)				
(80) DiaMed	RV >>>	11	6,6	Positive (RhD+)				
(159) Grifols	RV >>>	47	28	Positive (RhD+)				
(171) Diagast	RV >>>	1	0,6	Positive (RhD+)				
(172) Immucor	RV >>>	27	16	Positive (RhD+)				
(173) Sanguin	RV >>>	4	2,4	Positive (RhD+)				
(174) IVT Imuno	RV >>>	4	2,4	Positive (RhD+)				
(203) ANTITOXIN	RV >>>	2	1,2	Positive (RhD+)				
(999) another manufacturer	RV >>>	4	2,4	Positive (RhD+)				
(715) Antigen C		90			90	89	99	
Samples E1 and S1		90			90	89	99	
(6) APR	RV >>>	1	1,1	Negative				
(14) Bio-Rad	RV >>>	34	38	Negative				
		1	1,1	Positive				
(64) Exbio Olomouc	RV >>>	1	1,1	Negative				
(80) DiaMed	RV >>>	8	8,9	Negative				
(159) Grifols	RV >>>	22	24	Negative				
(172) Immucor	RV >>>	15	17	Negative				
(173) Sanguin	RV >>>	2	2,2	Negative				
(174) IVT Imuno	RV >>>	4	4,4	Negative				
(203) ANTITOXIN	RV >>>	2	2,2	Negative				
Samples E2 and S2		90			90	89	99	
(6) APR	RV >>>	1	1,1	Positive				
(14) Bio-Rad	RV >>>	1	1,1	Negative				
	RV >>>	34	38	Positive				
(64) Exbio Olomouc	RV >>>	1	1,1	Positive				
(80) DiaMed	RV >>>	8	8,9	Positive				
(159) Grifols	RV >>>	22	24	Positive				
(172) Immucor	RV >>>	15	17	Positive				
(173) Sanguin	RV >>>	2	2,2	Positive				
(174) IVT Imuno	RV >>>	4	4,4	Positive				
(203) ANTITOXIN	RV >>>	2	2,2	Positive				
(716) Antigen c		90			90	89	99	
Samples E1 and S1		90			90	89	99	
(6) APR	RV >>>	1	1,1	Positive				
(14) Bio-Rad	RV >>>	1	1,1	Negative				
	RV >>>	34	38	Positive				
(64) Exbio Olomouc	RV >>>	1	1,1	Positive				
(80) DiaMed	RV >>>	8	8,9	Positive				
(159) Grifols	RV >>>	22	24	Positive				
(172) Immucor	RV >>>	15	17	Positive				
(173) Sanguin	RV >>>	2	2,2	Positive				
(174) IVT Imuno	RV >>>	4	4,4	Positive				
(203) ANTITOXIN	RV >>>	2	2,2	Positive				
Samples E2 and S2		90			90	89	99	
(6) APR	RV >>>	1	1,1	Negative				

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(14) Bio-Rad	RV >>>	34	38	Negative				
		1	1,1	Positive				
(64) Exbio Olomouc	RV >>>	1	1,1	Negative				
(80) DiaMed	RV >>>	8	8,9	Negative				
(159) Grifols	RV >>>	22	24	Negative				
(172) Immucor	RV >>>	15	17	Negative				
(173) Sanguin	RV >>>	2	2,2	Negative				
(174) IVT Imuno	RV >>>	4	4,4	Negative				
(203) ANTITOXIN	RV >>>	2	2,2	Negative				
(718) Antigen E		91			91	90	99	
Samples E1 and S1		91			91	90	99	
(6) APR	RV >>>	1	1,1	Positive				
(14) Bio-Rad		1	1,1	Negative				
	RV >>>	34	37	Positive				
(64) Exbio Olomouc	RV >>>	1	1,1	Positive				
(80) DiaMed	RV >>>	8	8,8	Positive				
(159) Grifols	RV >>>	23	25	Positive				
(172) Immucor	RV >>>	15	16	Positive				
(173) Sanguin	RV >>>	2	2,2	Positive				
(174) IVT Imuno	RV >>>	4	4,4	Positive				
(203) ANTITOXIN	RV >>>	2	2,2	Positive				
Samples E2 and S2		91			91	90	99	
(6) APR	RV >>>	1	1,1	Negative				
(14) Bio-Rad	RV >>>	34	37	Negative				
		1	1,1	Positive				
(64) Exbio Olomouc	RV >>>	1	1,1	Negative				
(80) DiaMed	RV >>>	8	8,8	Negative				
(159) Grifols	RV >>>	23	25	Negative				
(172) Immucor	RV >>>	15	16	Negative				
(173) Sanguin	RV >>>	2	2,2	Negative				
(174) IVT Imuno	RV >>>	4	4,4	Negative				
(203) ANTITOXIN	RV >>>	2	2,2	Negative				
(719) Antigen e		90			90	89	99	
Samples E1 and S1		90			90	89	99	
(6) APR	RV >>>	1	1,1	Positive				
(14) Bio-Rad		1	1,1	Negative				
	RV >>>	33	37	Positive				
(17) Biogema	RV >>>	1	1,1	Positive				
(64) Exbio Olomouc	RV >>>	1	1,1	Positive				
(80) DiaMed	RV >>>	8	8,9	Positive				
(159) Grifols	RV >>>	22	24	Positive				
(172) Immucor	RV >>>	15	17	Positive				
(173) Sanguin	RV >>>	2	2,2	Positive				
(174) IVT Imuno	RV >>>	4	4,4	Positive				
(203) ANTITOXIN	RV >>>	2	2,2	Positive				
Samples E2 and S2		90			90	90	100	
(6) APR	RV >>>	1	1,1	Positive				
(14) Bio-Rad	RV >>>	34	38	Positive				
(17) Biogema	RV >>>	1	1,1	Positive				
(64) Exbio Olomouc	RV >>>	1	1,1	Positive				
(80) DiaMed	RV >>>	8	8,9	Positive				
(159) Grifols	RV >>>	22	24	Positive				
(172) Immucor	RV >>>	15	17	Positive				
(173) Sanguin	RV >>>	2	2,2	Positive				
(174) IVT Imuno	RV >>>	4	4,4	Positive				
(203) ANTITOXIN	RV >>>	2	2,2	Positive				
(717) Antigen C^w		74			74	74	100	
Samples E1 and S1		74			74	74	100	
(6) APR	RV >>>	1	1,4	Negative				
(14) Bio-Rad	RV >>>	26	35	Negative				
(64) Exbio Olomouc	RV >>>	2	2,7	Negative				
(80) DiaMed	RV >>>	3	4,1	Negative				
(159) Grifols	RV >>>	21	28	Negative				
(172) Immucor	RV >>>	14	19	Negative				
(173) Sanguin	RV >>>	3	4,1	Negative				
(174) IVT Imuno	RV >>>	3	4,1	Negative				
(203) ANTITOXIN	RV >>>	1	1,4	Negative				
Samples E2 and S2		74			74	74	100	
(6) APR	RV >>>	1	1,4	Negative				

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(14) Bio-Rad	RV >>>	26	35	Negative				
(64) Exbio Olomouc	RV >>>	2	2,7	Negative				
(80) DiaMed	RV >>>	3	4,1	Negative				
(159) Grifols	RV >>>	21	28	Negative				
(172) Immucor	RV >>>	14	19	Negative				
(173) Sanguin	RV >>>	3	4,1	Negative				
(174) IVT Imuno	RV >>>	3	4,1	Negative				
(203) ANTITOXIN	RV >>>	1	1,4	Negative				
(720) Antigen K		97			97	95	98	
Samples E1 and S1		97			97	96	99	
(6) APR	RV >>>	1	1	Negative				
(14) Bio-Rad	RV >>>	32	33	Negative				
		1	1	Positive				
(80) DiaMed	RV >>>	8	8,2	Negative				
(159) Grifols	RV >>>	30	31	Negative				
(172) Immucor	RV >>>	15	15	Negative				
(173) Sanguin	RV >>>	3	3,1	Negative				
(174) IVT Imuno	RV >>>	6	6,2	Negative				
(203) ANTITOXIN	RV >>>	1	1	Negative				
Samples E2 and S2		97			97	95	98	
(6) APR	RV >>>	1	1	Positive				
(14) Bio-Rad		1	1	Negative				
	RV >>>	32	33	Positive				
(80) DiaMed	RV >>>	8	8,2	Positive				
(159) Grifols	RV >>>	30	31	Positive				
(172) Immucor	RV >>>	15	15	Positive				
(173) Sanguin	RV >>>	3	3,1	Positive				
(174) IVT Imuno	RV >>>	6	6,2	Positive				
(203) ANTITOXIN		1	1	Negative				
(721) Antigen k		49			49	47	96	
Samples E1 and S1		49			49	48	98	
(14) Bio-Rad	RV >>>	12	24	Positive				
(64) Exbio Olomouc	RV >>>	5	10	Positive				
(80) DiaMed	RV >>>	1	2	Positive				
(159) Grifols	RV >>>	6	12	Positive				
(172) Immucor		1	2	Not specified				
	RV >>>	6	12	Positive				
(173) Sanguin	RV >>>	11	22	Positive				
(174) IVT Imuno	RV >>>	2	4,1	Positive				
(203) ANTITOXIN	RV >>>	4	8,2	Positive				
(999) another manufacturer	RV >>>	1	2	Positive				
Samples E2 and S2		49			49	48	98	
(14) Bio-Rad	RV >>>	12	24	Positive				
(64) Exbio Olomouc		1	2	Negative				
	RV >>>	4	8,2	Positive				
(80) DiaMed	RV >>>	1	2	Positive				
(159) Grifols	RV >>>	6	12	Positive				
(172) Immucor	RV >>>	7	14	Positive				
(173) Sanguin	RV >>>	11	22	Positive				
(174) IVT Imuno	RV >>>	2	4,1	Positive				
(203) ANTITOXIN	RV >>>	4	8,2	Positive				
(999) another manufacturer	RV >>>	1	2	Positive				
(738) Antigen Kp^a		15			15	14	93	
Samples E1 and S1		15			15	14	93	
(14) Bio-Rad	RV >>>	6	40	Negative				
(64) Exbio Olomouc	RV >>>	2	13	Negative				
(159) Grifols		1	6,7	Not specified				
	RV >>>	3	20	Negative				
(172) Immucor	RV >>>	2	13	Negative				
(173) Sanguin	RV >>>	1	6,7	Negative				
Samples E2 and S2		15			15	15	100	
(14) Bio-Rad	RV >>>	6	40	Negative				
(64) Exbio Olomouc	RV >>>	2	13	Negative				
(159) Grifols	RV >>>	4	27	Negative				
(172) Immucor	RV >>>	2	13	Negative				
(173) Sanguin	RV >>>	1	6,7	Negative				
(739) Antigen Kp^b		6			6	6	100	
Samples E1 and S1		6			6	6	100	
(14) Bio-Rad	RV >>>	3	50	Positive				

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(64) Exbio Olomouc	RV	>>>	1	17	Positive			
(159) Grifols	RV	>>>	1	17	Positive			
(172) Immucor	RV	>>>	1	17	Positive			
Samples E2 and S2			6			6	6	100
(14) Bio-Rad	RV	>>>	3	50	Positive			
(64) Exbio Olomouc	RV	>>>	1	17	Positive			
(159) Grifols	RV	>>>	1	17	Positive			
(172) Immucor	RV	>>>	1	17	Positive			
(729) Antigen Jk^a			45			45	45	100
Samples E1 and S1			45			45	45	100
(6) APR	RV	>>>	1	2,2	Negative			
(14) Bio-Rad	RV	>>>	13	29	Negative			
(52) Dynex	RV	>>>	1	2,2	Negative			
(64) Exbio Olomouc	RV	>>>	2	4,4	Negative			
(80) DiaMed	RV	>>>	1	2,2	Negative			
(159) Grifols	RV	>>>	8	18	Negative			
(172) Immucor	RV	>>>	11	24	Negative			
(173) Sanguin	RV	>>>	6	13	Negative			
(203) ANTITOXIN	RV	>>>	2	4,4	Negative			
Samples E2 and S2			45			45	45	100
(6) APR	RV	>>>	1	2,2	Negative			
(14) Bio-Rad	RV	>>>	13	29	Negative			
(52) Dynex	RV	>>>	1	2,2	Negative			
(64) Exbio Olomouc	RV	>>>	2	4,4	Negative			
(80) DiaMed	RV	>>>	1	2,2	Negative			
(159) Grifols	RV	>>>	8	18	Negative			
(172) Immucor	RV	>>>	11	24	Negative			
(173) Sanguin	RV	>>>	6	13	Negative			
(203) ANTITOXIN	RV	>>>	2	4,4	Negative			
(730) Antigen Jk^b			44			44	44	100
Samples E1 and S1			44			44	44	100
(14) Bio-Rad	RV	>>>	14	32	Positive			
(50) Merck	RV	>>>	1	2,3	Positive			
(64) Exbio Olomouc	RV	>>>	3	6,8	Positive			
(80) DiaMed	RV	>>>	1	2,3	Positive			
(159) Grifols	RV	>>>	8	18	Positive			
(172) Immucor	RV	>>>	10	23	Positive			
(173) Sanguin	RV	>>>	6	14	Positive			
(203) ANTITOXIN	RV	>>>	1	2,3	Positive			
Samples E2 and S2			44			44	44	100
(14) Bio-Rad	RV	>>>	14	32	Positive			
(50) Merck	RV	>>>	1	2,3	Positive			
(64) Exbio Olomouc	RV	>>>	3	6,8	Positive			
(80) DiaMed	RV	>>>	1	2,3	Positive			
(159) Grifols	RV	>>>	8	18	Positive			
(172) Immucor	RV	>>>	10	23	Positive			
(173) Sanguin	RV	>>>	6	14	Positive			
(203) ANTITOXIN	RV	>>>	1	2,3	Positive			
(727) Antigen Fy^a			44			44	44	100
Samples E1 and S1			44			44	44	100
(14) Bio-Rad	RV	>>>	15	34	Negative			
(64) Exbio Olomouc	RV	>>>	3	6,8	Negative			
(80) DiaMed	RV	>>>	1	2,3	Negative			
(159) Grifols	RV	>>>	7	16	Negative			
(172) Immucor	RV	>>>	9	20	Negative			
(173) Sanguin	RV	>>>	6	14	Negative			
(190) Exbio Praha	RV	>>>	1	2,3	Negative			
(203) ANTITOXIN	RV	>>>	2	4,5	Negative			
Samples E2 and S2			44			44	44	100
(14) Bio-Rad	RV	>>>	15	34	Positive			
(64) Exbio Olomouc	RV	>>>	3	6,8	Positive			
(80) DiaMed	RV	>>>	1	2,3	Positive			
(159) Grifols	RV	>>>	7	16	Positive			
(172) Immucor	RV	>>>	9	20	Positive			
(173) Sanguin	RV	>>>	6	14	Positive			
(190) Exbio Praha	RV	>>>	1	2,3	Positive			
(203) ANTITOXIN	RV	>>>	2	4,5	Positive			

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(728) Antigen Fy^b		45			45	45	100	
Samples E1 and S1		45			45	45	100	
(14) Bio-Rad	RV >>>	16	36	Positive				
(64) Exbio Olomouc	RV >>>	3	6,7	Positive				
(80) DiaMed	RV >>>	1	2,2	Positive				
(159) Grifols	RV >>>	7	16	Positive				
(172) Immucor	RV >>>	9	20	Positive				
(173) Sanguin	RV >>>	6	13	Positive				
(203) ANTITOXIN	RV >>>	3	6,7	Positive				
Samples E2 and S2		45			45	45	100	
(14) Bio-Rad	RV >>>	16	36	Positive				
(64) Exbio Olomouc	RV >>>	3	6,7	Positive				
(80) DiaMed	RV >>>	1	2,2	Positive				
(159) Grifols	RV >>>	7	16	Positive				
(172) Immucor	RV >>>	9	20	Positive				
(173) Sanguin	RV >>>	6	13	Positive				
(203) ANTITOXIN	RV >>>	3	6,7	Positive				
(722) Antigen M		44			44	43	98	
Samples E1 and S1		44			44	44	100	
(6) APR	RV >>>	1	2,3	Negative				
(14) Bio-Rad	RV >>>	12	27	Negative				
(52) Dynex	RV >>>	1	2,3	Negative				
(64) Exbio Olomouc	RV >>>	3	6,8	Negative				
(80) DiaMed	RV >>>	1	2,3	Negative				
(159) Grifols	RV >>>	6	14	Negative				
(172) Immucor	RV >>>	13	30	Negative				
(173) Sanguin	RV >>>	3	6,8	Negative				
(190) Exbio Praha	RV >>>	1	2,3	Negative				
(203) ANTITOXIN	RV >>>	3	6,8	Negative				
Samples E2 and S2		44			44	43	98	
(6) APR	RV >>>	1	2,3	Positive				
(14) Bio-Rad	RV >>>	12	27	Positive				
(52) Dynex	RV >>>	1	2,3	Positive				
(64) Exbio Olomouc	RV >>>	3	6,8	Positive				
(80) DiaMed	RV >>>	1	2,3	Positive				
(159) Grifols	RV >>>	1	2,3	Negative				
	RV >>>	5	11	Positive				
(172) Immucor	RV >>>	13	30	Positive				
(173) Sanguin	RV >>>	3	6,8	Positive				
(190) Exbio Praha	RV >>>	1	2,3	Positive				
(203) ANTITOXIN	RV >>>	3	6,8	Positive				
(723) Antigen N		40			40	39	98	
Samples E1 and S1		40			40	39	98	
(6) APR	RV >>>	1	2,5	Positive				
(14) Bio-Rad	RV >>>	11	28	Positive				
(52) Dynex	RV >>>	1	2,5	Positive				
(64) Exbio Olomouc	RV >>>	2	5	Positive				
(80) DiaMed	RV >>>	1	2,5	Positive				
(159) Grifols	RV >>>	1	2,5	Negative				
	RV >>>	5	13	Positive				
(172) Immucor	RV >>>	11	28	Positive				
(173) Sanguin	RV >>>	3	7,5	Positive				
(190) Exbio Praha	RV >>>	1	2,5	Positive				
(203) ANTITOXIN	RV >>>	3	7,5	Positive				
Samples E2 and S2		40			40	39	98	
(6) APR	RV >>>	1	2,5	Positive				
(14) Bio-Rad	RV >>>	11	28	Positive				
(52) Dynex	RV >>>	1	2,5	Positive				
(64) Exbio Olomouc	RV >>>	2	5	Positive				
(80) DiaMed	RV >>>	1	2,5	Positive				
(159) Grifols	RV >>>	1	2,5	Negative				
	RV >>>	5	13	Positive				
(172) Immucor	RV >>>	11	28	Positive				
(173) Sanguin	RV >>>	3	7,5	Positive				
(190) Exbio Praha	RV >>>	1	2,5	Positive				
(203) ANTITOXIN	RV >>>	3	7,5	Positive				
(724) Antigen S		42			42	41	98	
Samples E1 and S1		42			42	41	98	
(6) APR	RV >>>	1	2,4	Negative				

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(14) Bio-Rad	RV >>>	11	26	Negative				
		1	2,4	Positive				
(50) Merck	RV >>>	1	2,4	Negative				
(52) Dynex	RV >>>	1	2,4	Negative				
(64) Exbio Olomouc	RV >>>	3	7,1	Negative				
(80) DiaMed	RV >>>	1	2,4	Negative				
(159) Grifols	RV >>>	7	17	Negative				
(172) Immucor	RV >>>	10	24	Negative				
(173) Sanguin	RV >>>	3	7,1	Negative				
(174) IVT Imuno	RV >>>	1	2,4	Negative				
(203) ANTITOXIN	RV >>>	2	4,8	Negative				
Samples E2 and S2		42			42	41	98	
(6) APR	RV >>>	1	2,4	Negative				
(14) Bio-Rad	RV >>>	11	26	Negative				
		1	2,4	Positive				
(50) Merck	RV >>>	1	2,4	Negative				
(52) Dynex	RV >>>	1	2,4	Negative				
(64) Exbio Olomouc	RV >>>	3	7,1	Negative				
(80) DiaMed	RV >>>	1	2,4	Negative				
(159) Grifols	RV >>>	7	17	Negative				
(172) Immucor	RV >>>	10	24	Negative				
(173) Sanguin	RV >>>	3	7,1	Negative				
(174) IVT Imuno	RV >>>	1	2,4	Negative				
(203) ANTITOXIN	RV >>>	2	4,8	Negative				
(725) Antigen s		42			42	42	100	
Samples E1 and S1		42			42	42	100	
(6) APR	RV >>>	1	2,4	Positive				
(14) Bio-Rad	RV >>>	12	29	Positive				
(52) Dynex	RV >>>	1	2,4	Positive				
(64) Exbio Olomouc	RV >>>	3	7,1	Positive				
(80) DiaMed	RV >>>	1	2,4	Positive				
(159) Grifols	RV >>>	7	17	Positive				
(172) Immucor	RV >>>	7	17	Positive				
(173) Sanguin	RV >>>	6	14	Positive				
(174) IVT Imuno	RV >>>	1	2,4	Positive				
(203) ANTITOXIN	RV >>>	3	7,1	Positive				
Samples E2 and S2		42			42	42	100	
(6) APR	RV >>>	1	2,4	Positive				
(14) Bio-Rad	RV >>>	12	29	Positive				
(52) Dynex	RV >>>	1	2,4	Positive				
(64) Exbio Olomouc	RV >>>	3	7,1	Positive				
(80) DiaMed	RV >>>	1	2,4	Positive				
(159) Grifols	RV >>>	7	17	Positive				
(172) Immucor	RV >>>	7	17	Positive				
(173) Sanguin	RV >>>	6	14	Positive				
(174) IVT Imuno	RV >>>	1	2,4	Positive				
(203) ANTITOXIN	RV >>>	3	7,1	Positive				
(733) Antigen Le^a		36			36	36	100	
Samples E1 and S1		36			36	36	100	
(14) Bio-Rad	RV >>>	13	36	Negative				
(64) Exbio Olomouc	RV >>>	1	2,8	Negative				
(80) DiaMed	RV >>>	1	2,8	Negative				
(159) Grifols	RV >>>	6	17	Negative				
(172) Immucor	RV >>>	9	25	Negative				
(173) Sanguin	RV >>>	2	5,6	Negative				
(174) IVT Imuno	RV >>>	1	2,8	Negative				
(190) Exbio Praha	RV >>>	1	2,8	Negative				
(203) ANTITOXIN	RV >>>	2	5,6	Negative				
Samples E2 and S2		36			36	36	100	
(14) Bio-Rad	RV >>>	13	36	Negative				
(64) Exbio Olomouc	RV >>>	1	2,8	Negative				
(80) DiaMed	RV >>>	1	2,8	Negative				
(159) Grifols	RV >>>	6	17	Negative				
(172) Immucor	RV >>>	9	25	Negative				
(173) Sanguin	RV >>>	2	5,6	Negative				
(174) IVT Imuno	RV >>>	1	2,8	Negative				
(190) Exbio Praha	RV >>>	1	2,8	Negative				
(203) ANTITOXIN	RV >>>	2	5,6	Negative				

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(734) Antigen Le^b		36			36	36	100	
Samples E1 and S1		36			36	36	100	
(14) Bio-Rad	RV >>>	12	33	Positive				
(50) Merck	RV >>>	1	2,8	Positive				
(52) Dynex	RV >>>	1	2,8	Positive				
(80) DiaMed	RV >>>	1	2,8	Positive				
(159) Grifols	RV >>>	6	17	Positive				
(172) Immucor	RV >>>	9	25	Positive				
(173) Sanguin	RV >>>	2	5,6	Positive				
(174) IVT Imuno	RV >>>	1	2,8	Positive				
(190) Exbio Praha	RV >>>	1	2,8	Positive				
(203) ANTITOXIN	RV >>>	2	5,6	Positive				
Samples E2 and S2		36			36	36	100	
(14) Bio-Rad	RV >>>	12	33	Positive				
(50) Merck	RV >>>	1	2,8	Positive				
(52) Dynex	RV >>>	1	2,8	Positive				
(80) DiaMed	RV >>>	1	2,8	Positive				
(159) Grifols	RV >>>	6	17	Positive				
(172) Immucor	RV >>>	9	25	Positive				
(173) Sanguin	RV >>>	2	5,6	Positive				
(174) IVT Imuno	RV >>>	1	2,8	Positive				
(190) Exbio Praha	RV >>>	1	2,8	Positive				
(203) ANTITOXIN	RV >>>	2	5,6	Positive				
(731) Antigen Lu^a		26			26	24	92	
Samples E1 and S1		26			26	24	92	
(14) Bio-Rad	RV >>>	12	46	Negative				
(64) Exbio Olomouc	RV >>>	2	7,7	Negative				
(80) DiaMed	RV >>>	2	7,7	Negative				
(159) Grifols	RV >>>	5	19	Negative				
		2	7,7	Positive				
(172) Immucor	RV >>>	1	3,8	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	3,8	Negative				
(203) ANTITOXIN	RV >>>	1	3,8	Negative				
Samples E2 and S2		26			26	26	100	
(14) Bio-Rad	RV >>>	12	46	Negative				
(64) Exbio Olomouc	RV >>>	2	7,7	Negative				
(80) DiaMed	RV >>>	2	7,7	Negative				
(159) Grifols	RV >>>	7	27	Negative				
(172) Immucor	RV >>>	1	3,8	Negative				
(183) Immunodiagnostic Systems	RV >>>	1	3,8	Negative				
(203) ANTITOXIN	RV >>>	1	3,8	Negative				
(732) Antigen Lu^b		23			23	23	100	
Samples E1 and S1		23			23	23	100	
(14) Bio-Rad	RV >>>	10	43	Positive				
(64) Exbio Olomouc	RV >>>	1	4,3	Positive				
(80) DiaMed	RV >>>	3	13	Positive				
(159) Grifols	RV >>>	6	26	Positive				
(172) Immucor	RV >>>	1	4,3	Positive				
(174) IVT Imuno	RV >>>	1	4,3	Positive				
(203) ANTITOXIN	RV >>>	1	4,3	Positive				
Samples E2 and S2		23			23	23	100	
(14) Bio-Rad	RV >>>	10	43	Positive				
(64) Exbio Olomouc	RV >>>	1	4,3	Positive				
(80) DiaMed	RV >>>	3	13	Positive				
(159) Grifols	RV >>>	6	26	Positive				
(172) Immucor	RV >>>	1	4,3	Positive				
(174) IVT Imuno	RV >>>	1	4,3	Positive				
(203) ANTITOXIN	RV >>>	1	4,3	Positive				
(726) Antigen P1		30			30	29	97	
Samples E1 and S1		30			30	29	97	
(6) APR	RV >>>	1	3,3	Negative				
(14) Bio-Rad	RV >>>	8	27	Negative				
(64) Exbio Olomouc	RV >>>	2	6,7	Negative				
(80) DiaMed	RV >>>	1	3,3	Negative				
(159) Grifols	RV >>>	1	3,3	Negative				
		1	3,3	Positive				
(172) Immucor	RV >>>	8	27	Negative				
(173) Sanguin	RV >>>	6	20	Negative				
(174) IVT Imuno	RV >>>	1	3,3	Negative				

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(203) ANTITOXIN	RV	>>>	1	3,3	Negative			
Samples E2 and S2			30			30	30	100
(6) APR	RV	>>>	1	3,3	Negative			
(14) Bio-Rad	RV	>>>	8	27	Negative			
(64) Exbio Olomouc	RV	>>>	2	6,7	Negative			
(80) DiaMed	RV	>>>	1	3,3	Negative			
(159) Grifols	RV	>>>	2	6,7	Negative			
(172) Immucor	RV	>>>	8	27	Negative			
(173) Sanguin	RV	>>>	6	20	Negative			
(174) IVT Imuno	RV	>>>	1	3,3	Negative			
(203) ANTITOXIN	RV	>>>	1	3,3	Negative			
(740) Antigen Wr^a			7			7	7	100
Samples E1 and S1			7			7	7	100
(159) Grifols	RV	>>>	1	14	Negative			
(172) Immucor	RV	>>>	2	29	Negative			
(173) Sanguin	RV	>>>	4	57	Negative			
Samples E2 and S2			7			7	7	100
(159) Grifols	RV	>>>	1	14	Negative			
(172) Immucor	RV	>>>	2	29	Negative			
(173) Sanguin	RV	>>>	4	57	Negative			
(737) Direct Antiglobulin Test			144			144	143	99
Samples E1 and S1			144			144	143	99
(14) Bio-Rad	RV	>>>	67	47	Negative			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,7	Negative			
(64) Exbio Olomouc	RV	>>>	2	1,4	Negative			
(80) DiaMed	RV	>>>	22	15	Negative			
(159) Grifols	RV	>>>	48	33	Negative			
(172) Immucor	RV	>>>	1	0,7	Positive			
(172) Immucor	RV	>>>	1	0,7	Negative			
(174) IVT Imuno	RV	>>>	1	0,7	Negative			
(203) ANTITOXIN	RV	>>>	1	0,7	Negative			
Samples E2 and S2			144			144	144	100
(14) Bio-Rad	RV	>>>	67	47	Negative			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,7	Negative			
(64) Exbio Olomouc	RV	>>>	2	1,4	Negative			
(80) DiaMed	RV	>>>	22	15	Negative			
(159) Grifols	RV	>>>	49	34	Negative			
(172) Immucor	RV	>>>	1	0,7	Negative			
(174) IVT Imuno	RV	>>>	1	0,7	Negative			
(203) ANTITOXIN	RV	>>>	1	0,7	Negative			
(741) Antierythrocyte antibody screening (IAT, blood donor)			89			89	88	99
Samples E1 and S1			89			89	88	99
(6) APR	RV	>>>	4	4,5	Positive			
(14) Bio-Rad	RV	>>>	1	1,1	Negative			
(64) Exbio Olomouc	RV	>>>	34	38	Positive			
(80) DiaMed	RV	>>>	1	1,1	Positive			
(159) Grifols	RV	>>>	10	11	Positive			
(172) Immucor	RV	>>>	24	27	Positive			
(172) Immucor	RV	>>>	15	17	Positive			
Samples E2 and S2			89			89	89	100
(6) APR	RV	>>>	4	4,5	Positive			
(14) Bio-Rad	RV	>>>	35	39	Positive			
(64) Exbio Olomouc	RV	>>>	1	1,1	Positive			
(80) DiaMed	RV	>>>	10	11	Positive			
(159) Grifols	RV	>>>	24	27	Positive			
(172) Immucor	RV	>>>	15	17	Positive			
(743) Antierythrocyte antibody screening (IAT, recipient)			157			157	157	100
Samples E1 and S1			157			157	157	100
(6) APR	RV	>>>	1	0,6	Positive			
(14) Bio-Rad	RV	>>>	71	45	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,6	Positive			
(80) DiaMed	RV	>>>	24	15	Positive			
(159) Grifols	RV	>>>	52	33	Positive			
(172) Immucor	RV	>>>	8	5,1	Positive			
Samples E2 and S2			157			157	157	100
(6) APR	RV	>>>	1	0,6	Positive			
(14) Bio-Rad	RV	>>>	71	45	Positive			

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	AV	N _{tot}	Frequency of the results			Success		
			N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,6	Positive			
(80) DiaMed	RV	>>>	24	15	Positive			
(159) Grifols	RV	>>>	52	33	Positive			
(172) Immucor	RV	>>>	8	5,1	Positive			
(745) Antierythrocyte antibody screening (IAT, pregnant)			125			125	125	100
Samples E1 and S1			125			125	125	100
(6) APR	RV	>>>	1	0,8	Positive			
(14) Bio-Rad	RV	>>>	55	44	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,8	Positive			
(64) Exbio Olomouc	RV	>>>	1	0,8	Positive			
(80) DiaMed	RV	>>>	18	14	Positive			
(159) Grifols	RV	>>>	42	34	Positive			
(172) Immucor	RV	>>>	7	5,6	Positive			
Samples E2 and S2			125			125	125	100
(6) APR	RV	>>>	1	0,8	Positive			
(14) Bio-Rad	RV	>>>	55	44	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,8	Positive			
(64) Exbio Olomouc	RV	>>>	1	0,8	Positive			
(80) DiaMed	RV	>>>	18	14	Positive			
(159) Grifols	RV	>>>	42	34	Positive			
(172) Immucor	RV	>>>	7	5,6	Positive			
(747) Antierythrocyte antibody screening (enzyme test)			111			111	111	100
Samples E1 and S1			111			111	111	100
(0) not specified		>	1	0,9	Negative			
(14) Bio-Rad		>	13	12	Negative			
	RV	>>>	37	33	Positive			
(40) Ortho Clinical Diagnostics		>	1	0,9	Negative			
(80) DiaMed		>	3	2,7	Negative			
	RV	>>>	15	14	Positive			
(159) Grifols		>	2	1,8	Negative			
	RV	>>>	38	34	Positive			
(172) Immucor	RV	>>>	1	0,9	Positive			
Samples E2 and S2			111			111	111	100
(0) not specified	RV	>>>	1	0,9	Positive			
(14) Bio-Rad	RV	>>>	50	45	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,9	Positive			
(80) DiaMed	RV	>>>	18	16	Positive			
(159) Grifols	RV	>>>	40	36	Positive			
(172) Immucor	RV	>>>	1	0,9	Positive			
(750) Antierythrocyte antibody identification			55			55	50	91
Samples E1 and S1			55			55	54	98
(0) not specified	RV	>>>	54	98	anti-K; anti-M			
			1	1,8	anti-M			
Samples E2 and S2			55			55	51	93
(0) not specified			2	3,6	anti-c			
	RV	>>>	51	93	anti-c; anti-Jka			
			1	1,8	anti-c; anti-Jka; anti-P1			
			1	1,8	anti-c; anti-Lea			
(752) Antibody titre, Sample 1: 1st antibody			37			0		
Samples E1 and S1			37			0		
(0) not specified		±	8	22	titre 8			
		±	21	57	titre 16			
		±	7	19	titre 32			
		±	1	2,7	titre 64			
(753) Antibody titre, Sample 1: 2nd antibody			37			0		
Samples E1 and S1			37			0		
(0) not specified		±	1	2,7	titre 0 (not measurable)			
		±	8	22	titre 4			
		±	6	16	titre 8			
		±	6	16	titre 16			
		±	12	32	titre 32			
		±	4	11	titre 64			
(756) Antibody titre, Sample 2: 1st antibody			36			0		
Samples E2 and S2			36			0		
(0) not specified		±	1	2,8	titre 4			
		±	5	14	titre 8			
		±	7	19	titre 16			

EQA round: IH4/24 - Blood Group Serology

Deadline: 15.11.2024

Setup: groups - R (manufacturer of kit)

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
	±	7	19	titre 32			
	±	8	22	titre 64			
	±	7	19	titre 128			
	±	1	2,8	titre 256			
(757) Antibody titre, Sample 2: 2nd antibody		34				0	
Samples E2 and S2		34				0	
(0) not specified	±	1	2,9	titre 0 (not measurable)			
	±	9	26	titre 1			
	±	8	24	titre 2			
	±	9	26	titre 4			
	±	4	12	titre 8			
	±	2	5,9	titre 16			
	±	1	2,9	titre 64			
Set 3							
(761) Compatibility test (segment K1)		137				137	136
Sample S1		137				137	137
(0) not specified	RV >>>	137	100	Positive test			99
Sample S2		137				137	136
(0) not specified		1	0,7	Negative test			
	RV >>>	136	99	Positive test			99
(762) Serve transfusion product? (segment K1)		138				0	
(transfusion in non-emergency mode)							
Sample S1		138				0	
(0) not specified	±	138	100	Impossible, risk of haemolysis			
Sample S2		138				0	
(0) not specified	±	137	99	Impossible, risk of haemolysis			
	±	1	0,7	Decision depends on results of other tests not performed in our laboratory			
(764) Compatibility test (segment K2)		137				137	136
Sample S1		137				137	136
(0) not specified	RV >>>	136	99	Negative test			99
		1	0,7	Positive test			
Sample S2		137				137	137
(0) not specified	RV >>>	137	100	Negative test			100
(765) Serve transfusion product? (segment K2)		138				0	
(transfusion in non-emergency mode)							
Sample S1		138				0	
(0) not specified	±	6	4,3	Impossible, risk of haemolysis			
	±	73	53	Decision depends on results of other tests not performed in our laboratory			
	±	43	31	Only if more suitable products are not available			
	±	16	12	Possible			
Sample S2		138				0	
(0) not specified	±	77	56	Decision depends on results of other tests not performed in our laboratory			
	±	28	20	Only if more suitable products are not available			
	±	33	24	Possible			