Summary statistics - qualitative results

EQA round: IH3/26 - Blood Group Serology

Deadline: 2.10.2026

Setup: groups - R (manufacturer of kit)

AV = assigned value
RV = reference value
>>> ... expected result
> ... acceptable result
± ... result not assessed

N_{tot} = total number of the results
N_{rel} = relative number of the results

N_{eva} = number of the results assessed
N_{suc} = number of successful results
S_{rel} = relative success

Test / Sample / Group	AV		Frequency of the results N_{tot}	N_{rel} [%]	Result	Success N_{eva}	N_{suc}	S_{rel} [%]
Set 1 and 2								
(700) **AB0 blood group**			168			168	168	100
Samples E1 and S1			168			168	168	100
(14) Bio-Rad	RV	>>>	65	39	Blood group: 0			
(38) Werfen (IL)	RV	>>>	1	0,6	Blood group: 0			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,6	Blood group: 0			
(64) Exbio Olomouc	RV	>>>	2	1,2	Blood group: 0			
(80) DiaMed	RV	>>>	8	4,8	Blood group: 0			
(159) Grifols	RV	>>>	67	40	Blood group: 0			
(171) Diagast	RV	>>>	2	1,2	Blood group: 0			
(172) Immucor	RV	>>>	15	8,9	Blood group: 0			
(173) Sanguin	RV	>>>	3	1,8	Blood group: 0			
(174) IVT Imuno	RV	>>>	2	1,2	Blood group: 0			
(183) Immunodiagnostic Systems	RV	>>>	1	0,6	Blood group: 0			
(999) another manufacturer	RV	>>>	1	0,6	Blood group: 0			
Samples E2 and S2			168			168	168	100
(14) Bio-Rad	RV	>>>	65	39	Blood group: B			
(38) Werfen (IL)	RV	>>>	1	0,6	Blood group: B			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,6	Blood group: B			
(64) Exbio Olomouc	RV	>>>	2	1,2	Blood group: B			
(80) DiaMed	RV	>>>	8	4,8	Blood group: B			
(159) Grifols	RV	>>>	67	40	Blood group: B			
(171) Diagast	RV	>>>	2	1,2	Blood group: B			
(172) Immucor	RV	>>>	15	8,9	Blood group: B			
(173) Sanguin	RV	>>>	3	1,8	Blood group: B			
(174) IVT Imuno	RV	>>>	2	1,2	Blood group: B			
(183) Immunodiagnostic Systems	RV	>>>	1	0,6	Blood group: B			
(999) another manufacturer	RV	>>>	1	0,6	Blood group: B			
(705) **RhD antigen (blood-donor)**			88			88	88	100
Samples E1 and S1			88			88	88	100
(14) Bio-Rad	RV	>>>	34	39	Negative (RhD-)			
(38) Werfen (IL)	RV	>>>	1	1,1	Negative (RhD-)			
(80) DiaMed	RV	>>>	3	3,4	Negative (RhD-)			
(159) Grifols	RV	>>>	32	36	Negative (RhD-)			
(171) Diagast	RV	>>>	1	1,1	Negative (RhD-)			
(172) Immucor	RV	>>>	13	15	Negative (RhD-)			
(173) Sanguin	RV	>>>	1	1,1	Negative (RhD-)			
(174) IVT Imuno	RV	>>>	1	1,1	Negative (RhD-)			
(183) Immunodiagnostic Systems	RV	>>>	1	1,1	Negative (RhD-)			
(999) another manufacturer	RV	>>>	1	1,1	Negative (RhD-)			
Samples E2 and S2			88			88	88	100
(14) Bio-Rad	RV	>>>	34	39	Negative (RhD-)			
(38) Werfen (IL)	RV	>>>	1	1,1	Negative (RhD-)			
(80) DiaMed	RV	>>>	3	3,4	Negative (RhD-)			
(159) Grifols	RV	>>>	32	36	Negative (RhD-)			
(171) Diagast	RV	>>>	1	1,1	Negative (RhD-)			
(172) Immucor	RV	>>>	13	15	Negative (RhD-)			
(173) Sanguin	RV	>>>	1	1,1	Negative (RhD-)			
(174) IVT Imuno	RV	>>>	1	1,1	Negative (RhD-)			
(183) Immunodiagnostic Systems	RV	>>>	1	1,1	Negative (RhD-)			
(999) another manufacturer	RV	>>>	1	1,1	Negative (RhD-)			
(709) **RhD antigen (recipient/ pregnant/ newborn)**			156			156	155	99
Samples E1 and S1			156			156	156	100
(0) not specified	RV	>>>	1	0,6	Negative (RhD-)			
(14) Bio-Rad	RV	>>>	60	38	Negative (RhD-)			
(38) Werfen (IL)	RV	>>>	1	0,6	Negative (RhD-)			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,6	Negative (RhD-)			
(64) Exbio Olomouc	RV	>>>	3	1,9	Negative (RhD-)			
(80) DiaMed	RV	>>>	6	3,8	Negative (RhD-)			
(159) Grifols	RV	>>>	62	40	Negative (RhD-)			
(170) Biotest	RV	>>>	1	0,6	Negative (RhD-)			
(171) Diagast	RV	>>>	1	0,6	Negative (RhD-)			
(172) Immucor	RV	>>>	13	8,3	Negative (RhD-)			

Summary statistics - qualitative results

EQA round: IH3/26 - Blood Group Serology

Deadline: 2.10.2026

Setup: groups - R (manufacturer of kit)

Test / Sample / Group		AV	N_{tot}	N_{rel} [%]	Result	Success N_{eva}	N_{suc}	S_{rel} [%]
(173) Sanguin	RV	>>>	3	1,9	Negative (RhD-)			
(174) IVT Imuno	RV	>>>	1	0,6	Negative (RhD-)			
(183) Immunodiagnostic Systems	RV	>>>	1	0,6	Negative (RhD-)			
(203) ANTITOXIN	RV	>>>	1	0,6	Negative (RhD-)			
(999) another manufacturer	RV	>>>	1	0,6	Negative (RhD-)			
Samples E2 and S2			156			156	155	99
(0) not specified	RV	>>>	1	0,6	Negative (RhD-)			
(14) Bio-Rad	RV	>>>	60	38	Negative (RhD-)			
(38) Werfen (IL)	RV	>>>	1	0,6	Negative (RhD-)			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,6	Negative (RhD-)			
(64) Exbio Olomouc	RV	>>>	3	1,9	Negative (RhD-)			
(80) DiaMed	RV	>>>	6	3,8	Negative (RhD-)			
(159) Grifols	RV	>>>	61	39	Negative (RhD-)			
			1	0,6	w/v (RhD weak/variant)			
(170) Biotest	RV	>>>	1	0,6	Negative (RhD-)			
(171) Diagast	RV	>>>	1	0,6	Negative (RhD-)			
(172) Immucor	RV	>>>	13	8,3	Negative (RhD-)			
(173) Sanguin	RV	>>>	3	1,9	Negative (RhD-)			
(174) IVT Imuno	RV	>>>	1	0,6	Negative (RhD-)			
(183) Immunodiagnostic Systems	RV	>>>	1	0,6	Negative (RhD-)			
(203) ANTITOXIN	RV	>>>	1	0,6	Negative (RhD-)			
(999) another manufacturer	RV	>>>	1	0,6	Negative (RhD-)			
(715) **Antigen C**			94			94	94	100
Samples E1 and S1			94			94	94	100
(14) Bio-Rad	RV	>>>	40	43	Negative			
(80) DiaMed	RV	>>>	5	5,3	Negative			
(159) Grifols	RV	>>>	39	41	Negative			
(171) Diagast	RV	>>>	1	1,1	Negative			
(172) Immucor	RV	>>>	6	6,4	Negative			
(174) IVT Imuno	RV	>>>	1	1,1	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	1,1	Negative			
(203) ANTITOXIN	RV	>>>	1	1,1	Negative			
Samples E2 and S2			94			94	94	100
(14) Bio-Rad	RV	>>>	40	43	Negative			
(80) DiaMed	RV	>>>	5	5,3	Negative			
(159) Grifols	RV	>>>	39	41	Negative			
(171) Diagast	RV	>>>	1	1,1	Negative			
(172) Immucor	RV	>>>	6	6,4	Negative			
(174) IVT Imuno	RV	>>>	1	1,1	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	1,1	Negative			
(203) ANTITOXIN	RV	>>>	1	1,1	Negative			
(716) **Antigen c**			94			94	94	100
Samples E1 and S1			94			94	94	100
(14) Bio-Rad	RV	>>>	40	43	Positive			
(80) DiaMed	RV	>>>	5	5,3	Positive			
(159) Grifols	RV	>>>	39	41	Positive			
(171) Diagast	RV	>>>	1	1,1	Positive			
(172) Immucor	RV	>>>	6	6,4	Positive			
(174) IVT Imuno	RV	>>>	1	1,1	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	1,1	Positive			
(203) ANTITOXIN	RV	>>>	1	1,1	Positive			
Samples E2 and S2			94			94	94	100
(14) Bio-Rad	RV	>>>	40	43	Positive			
(80) DiaMed	RV	>>>	5	5,3	Positive			
(159) Grifols	RV	>>>	39	41	Positive			
(171) Diagast	RV	>>>	1	1,1	Positive			
(172) Immucor	RV	>>>	6	6,4	Positive			
(174) IVT Imuno	RV	>>>	1	1,1	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	1,1	Positive			
(203) ANTITOXIN	RV	>>>	1	1,1	Positive			
(718) **Antigen E**			95			95	95	100
Samples E1 and S1			95			95	95	100
(14) Bio-Rad	RV	>>>	40	42	Negative			
(80) DiaMed	RV	>>>	5	5,3	Negative			
(159) Grifols	RV	>>>	40	42	Negative			
(171) Diagast	RV	>>>	1	1,1	Negative			
(172) Immucor	RV	>>>	6	6,3	Negative			
(174) IVT Imuno	RV	>>>	1	1,1	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	1,1	Negative			

Summary statistics - qualitative results

EQA round: IH3/26 - Blood Group Serology

Deadline: 2.10.2026

Setup: groups - R (manufacturer of kit)

Test / Sample / Group		AV	N_{tot}	N_{rel} [%]	Result	Success N_{eva}	N_{suc}	S_{rel} [%]
(203) ANTITOXIN	RV	>>>	1	1,1	Negative			
Samples E2 and S2			95			95	95	100
(14) Bio-Rad	RV	>>>	40	42	Negative			
(80) DiaMed	RV	>>>	5	5,3	Negative			
(159) Grifols	RV	>>>	40	42	Negative			
(171) Diagast	RV	>>>	1	1,1	Negative			
(172) Immucor	RV	>>>	6	6,3	Negative			
(174) IVT Imuno	RV	>>>	1	1,1	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	1,1	Negative			
(203) ANTITOXIN	RV	>>>	1	1,1	Negative			
(719) **Antigen e**			94			94	94	100
Samples E1 and S1			94			94	94	100
(14) Bio-Rad	RV	>>>	39	41	Positive			
(17) Biogema	RV	>>>	1	1,1	Positive			
(80) DiaMed	RV	>>>	5	5,3	Positive			
(159) Grifols	RV	>>>	39	41	Positive			
(171) Diagast	RV	>>>	1	1,1	Positive			
(172) Immucor	RV	>>>	6	6,4	Positive			
(174) IVT Imuno	RV	>>>	1	1,1	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	1,1	Positive			
(203) ANTITOXIN	RV	>>>	1	1,1	Positive			
Samples E2 and S2			94			94	94	100
(14) Bio-Rad	RV	>>>	39	41	Positive			
(17) Biogema	RV	>>>	1	1,1	Positive			
(80) DiaMed	RV	>>>	5	5,3	Positive			
(159) Grifols	RV	>>>	39	41	Positive			
(171) Diagast	RV	>>>	1	1,1	Positive			
(172) Immucor	RV	>>>	6	6,4	Positive			
(174) IVT Imuno	RV	>>>	1	1,1	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	1,1	Positive			
(203) ANTITOXIN	RV	>>>	1	1,1	Positive			
(717) **Antigen C^w**			83			83	83	100
Samples E1 and S1			83			83	83	100
(0) not specified	RV	>>>	2	2,4	Negative			
(14) Bio-Rad	RV	>>>	32	39	Negative			
(80) DiaMed	RV	>>>	2	2,4	Negative			
(159) Grifols	RV	>>>	39	47	Negative			
(172) Immucor	RV	>>>	6	7,2	Negative			
(173) Sanguin	RV	>>>	1	1,2	Negative			
(174) IVT Imuno	RV	>>>	1	1,2	Negative			
Samples E2 and S2			83			83	83	100
(0) not specified	RV	>>>	2	2,4	Negative			
(14) Bio-Rad	RV	>>>	32	39	Negative			
(80) DiaMed	RV	>>>	2	2,4	Negative			
(159) Grifols	RV	>>>	39	47	Negative			
(172) Immucor	RV	>>>	6	7,2	Negative			
(173) Sanguin	RV	>>>	1	1,2	Negative			
(174) IVT Imuno	RV	>>>	1	1,2	Negative			
(720) **Antigen K**			104			104	104	100
Samples E1 and S1			104			104	104	100
(14) Bio-Rad	RV	>>>	41	39	Negative			
(80) DiaMed	RV	>>>	5	4,8	Negative			
(159) Grifols	RV	>>>	48	46	Negative			
(171) Diagast	RV	>>>	1	1	Negative			
(172) Immucor	RV	>>>	6	5,8	Negative			
(174) IVT Imuno	RV	>>>	1	1	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	1	Negative			
(203) ANTITOXIN	RV	>>>	1	1	Negative			
Samples E2 and S2			104			104	104	100
(14) Bio-Rad	RV	>>>	41	39	Negative			
(80) DiaMed	RV	>>>	5	4,8	Negative			
(159) Grifols	RV	>>>	48	46	Negative			
(171) Diagast	RV	>>>	1	1	Negative			
(172) Immucor	RV	>>>	6	5,8	Negative			
(174) IVT Imuno	RV	>>>	1	1	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	1	Negative			
(203) ANTITOXIN	RV	>>>	1	1	Negative			

Summary statistics - qualitative results

EQA round: IH3/26 - Blood Group Serology

Deadline: 2.10.2026

Setup: groups - R (manufacturer of kit)

Test / Sample / Group		AV	N_{tot}	N_{rel} [%]	Result	Success N_{eva}	Success N_{suc}	Success S_{rel} [%]
(721) **Antigen k**			44			44	43	98
Samples E1 and S1			44			44	43	98
(14) Bio-Rad	RV	>>>	13	30	Positive			
(64) Exbio Olomouc	RV	>>>	2	4,5	Positive			
(80) DiaMed	RV	>>>	1	2,3	Positive			
(159) Grifols			1	2,3	Not specified			
	RV	>>>	13	30	Positive			
(172) Immucor	RV	>>>	6	14	Positive			
(173) Sanguin	RV	>>>	4	9,1	Positive			
(174) IVT Imuno	RV	>>>	1	2,3	Positive			
(999) another manufacturer	RV	>>>	3	6,8	Positive			
Samples E2 and S2			44			44	44	100
(14) Bio-Rad	RV	>>>	13	30	Positive			
(64) Exbio Olomouc	RV	>>>	2	4,5	Positive			
(80) DiaMed	RV	>>>	1	2,3	Positive			
(159) Grifols	RV	>>>	14	32	Positive			
(172) Immucor	RV	>>>	6	14	Positive			
(173) Sanguin	RV	>>>	4	9,1	Positive			
(174) IVT Imuno	RV	>>>	1	2,3	Positive			
(999) another manufacturer	RV	>>>	3	6,8	Positive			
(738) **Antigen Kp[a]**			24			24	23	96
Samples E1 and S1			24			24	23	96
(0) not specified	RV	>>>	1	4,2	Negative			
(14) Bio-Rad	RV	>>>	10	42	Negative			
(80) DiaMed	RV	>>>	2	8,3	Negative			
(159) Grifols			1	4,2	Not specified			
	RV	>>>	8	33	Negative			
(172) Immucor	RV	>>>	1	4,2	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	4,2	Negative			
Samples E2 and S2			24			24	24	100
(0) not specified	RV	>>>	1	4,2	Negative			
(14) Bio-Rad	RV	>>>	10	42	Negative			
(80) DiaMed	RV	>>>	2	8,3	Negative			
(159) Grifols	RV	>>>	9	38	Negative			
(172) Immucor	RV	>>>	1	4,2	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	4,2	Negative			
(739) **Antigen Kp[b]**			17			17	16	94
Samples E1 and S1			17			17	16	94
(0) not specified	RV	>>>	1	5,9	Positive			
(14) Bio-Rad	RV	>>>	6	35	Positive			
(80) DiaMed	RV	>>>	2	12	Positive			
(159) Grifols			1	5,9	Not specified			
	RV	>>>	5	29	Positive			
(172) Immucor	RV	>>>	1	5,9	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	5,9	Positive			
Samples E2 and S2			17			17	17	100
(0) not specified	RV	>>>	1	5,9	Positive			
(14) Bio-Rad	RV	>>>	6	35	Positive			
(80) DiaMed	RV	>>>	2	12	Positive			
(159) Grifols	RV	>>>	6	35	Positive			
(172) Immucor	RV	>>>	1	5,9	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	5,9	Positive			
(729) **Antigen Jk[a]**			47			47	46	98
Samples E1 and S1			47			47	47	100
(14) Bio-Rad	RV	>>>	14	30	Positive			
(64) Exbio Olomouc	RV	>>>	2	4,3	Positive			
(80) DiaMed	RV	>>>	3	6,4	Positive			
(159) Grifols	RV	>>>	19	40	Positive			
(172) Immucor	RV	>>>	5	11	Positive			
(173) Sanguin	RV	>>>	3	6,4	Positive			
(203) ANTITOXIN	RV	>>>	1	2,1	Positive			
Samples E2 and S2			47			47	46	98
(14) Bio-Rad	RV	>>>	14	30	Negative			
(64) Exbio Olomouc	RV	>>>	2	4,3	Negative			
(80) DiaMed	RV	>>>	3	6,4	Negative			
(159) Grifols	RV	>>>	18	38	Negative			
			1	2,1	Positive			
(172) Immucor	RV	>>>	5	11	Negative			
(173) Sanguin	RV	>>>	3	6,4	Negative			

Summary statistics - qualitative results

EQA round: IH3/26 - Blood Group Serology

Deadline: 2.10.2026

Setup: groups - R (manufacturer of kit)

Test / Sample / Group		AV	N_{tot}	N_{rel} [%]	Result	Success N_{eva}	Success N_{suc}	Success S_{rel} [%]
(203) ANTITOXIN	RV	>>>	1	2,1	Negative			
(730) **Antigen Jk[b]**			47			47	46	98
Samples E1 and S1			47			47	46	98
(14) Bio-Rad	RV	>>>	13	28	Positive			
(64) Exbio Olomouc	RV	>>>	2	4,3	Positive			
(80) DiaMed	RV	>>>	3	6,4	Positive			
(159) Grifols			1	2,1	Negative			
	RV	>>>	18	38	Positive			
(172) Immucor	RV	>>>	5	11	Positive			
(173) Sanguin	RV	>>>	4	8,5	Positive			
(203) ANTITOXIN	RV	>>>	1	2,1	Positive			
Samples E2 and S2			47			47	46	98
(14) Bio-Rad	RV	>>>	13	28	Positive			
(64) Exbio Olomouc	RV	>>>	2	4,3	Positive			
(80) DiaMed	RV	>>>	3	6,4	Positive			
(159) Grifols			1	2,1	Negative			
	RV	>>>	18	38	Positive			
(172) Immucor	RV	>>>	5	11	Positive			
(173) Sanguin	RV	>>>	4	8,5	Positive			
(203) ANTITOXIN	RV	>>>	1	2,1	Positive			
(727) **Antigen Fy[a]**			48			48	47	98
Samples E1 and S1			48			48	48	100
(0) not specified	RV	>>>	1	2,1	Negative			
(14) Bio-Rad	RV	>>>	15	31	Negative			
(64) Exbio Olomouc	RV	>>>	1	2,1	Negative			
(80) DiaMed	RV	>>>	3	6,3	Negative			
(159) Grifols	RV	>>>	19	40	Negative			
(172) Immucor	RV	>>>	5	10	Negative			
(173) Sanguin	RV	>>>	3	6,3	Negative			
(203) ANTITOXIN	RV	>>>	1	2,1	Negative			
Samples E2 and S2			48			48	47	98
(0) not specified	RV	>>>	1	2,1	Positive			
(14) Bio-Rad	RV	>>>	15	31	Positive			
(64) Exbio Olomouc	RV	>>>	1	2,1	Positive			
(80) DiaMed	RV	>>>	3	6,3	Positive			
(159) Grifols			1	2,1	Negative			
	RV	>>>	18	38	Positive			
(172) Immucor	RV	>>>	5	10	Positive			
(173) Sanguin	RV	>>>	3	6,3	Positive			
(203) ANTITOXIN	RV	>>>	1	2,1	Positive			
(728) **Antigen Fy[b]**			48			48	48	100
Samples E1 and S1			48			48	48	100
(0) not specified	RV	>>>	1	2,1	Positive			
(14) Bio-Rad	RV	>>>	15	31	Positive			
(64) Exbio Olomouc	RV	>>>	1	2,1	Positive			
(80) DiaMed	RV	>>>	3	6,3	Positive			
(159) Grifols	RV	>>>	19	40	Positive			
(172) Immucor	RV	>>>	5	10	Positive			
(173) Sanguin	RV	>>>	3	6,3	Positive			
(203) ANTITOXIN	RV	>>>	1	2,1	Positive			
Samples E2 and S2			48			48	48	100
(0) not specified	RV	>>>	1	2,1	Positive			
(14) Bio-Rad	RV	>>>	15	31	Positive			
(64) Exbio Olomouc	RV	>>>	1	2,1	Positive			
(80) DiaMed	RV	>>>	3	6,3	Positive			
(159) Grifols	RV	>>>	19	40	Positive			
(172) Immucor	RV	>>>	5	10	Positive			
(173) Sanguin	RV	>>>	3	6,3	Positive			
(203) ANTITOXIN	RV	>>>	1	2,1	Positive			
(722) **Antigen M**			47			47	47	100
Samples E1 and S1			47			47	47	100
(14) Bio-Rad	RV	>>>	14	30	Positive			
(38) Werfen (IL)	RV	>>>	1	2,1	Positive			
(64) Exbio Olomouc	RV	>>>	1	2,1	Positive			
(80) DiaMed	RV	>>>	3	6,4	Positive			
(159) Grifols	RV	>>>	18	38	Positive			
(171) Diagast	RV	>>>	1	2,1	Positive			
(172) Immucor	RV	>>>	5	11	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	2,1	Positive			

Summary statistics - qualitative results

EQA round: IH3/26 - Blood Group Serology

Deadline: 2.10.2026

Setup: groups - R (manufacturer of kit)

Test / Sample / Group		AV	N_{tot}	N_{rel} [%]	Result	Success N_{eva}	Success N_{suc}	Success S_{rel} [%]
(203) ANTITOXIN	RV	>>>	2	4,3	Positive			
(999) another manufacturer	RV	>>>	1	2,1	Positive			
Samples E2 and S2			47			47	47	100
(14) Bio-Rad	RV	>>>	14	30	Positive			
(38) Werfen (IL)	RV	>>>	1	2,1	Positive			
(64) Exbio Olomouc	RV	>>>	1	2,1	Positive			
(80) DiaMed	RV	>>>	3	6,4	Positive			
(159) Grifols	RV	>>>	18	38	Positive			
(171) Diagast	RV	>>>	1	2,1	Positive			
(172) Immucor	RV	>>>	5	11	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	2,1	Positive			
(203) ANTITOXIN	RV	>>>	2	4,3	Positive			
(999) another manufacturer	RV	>>>	1	2,1	Positive			
(723) **Antigen N**			45			45	42	93
Samples E1 and S1			45			45	44	98
(14) Bio-Rad	RV	>>>	13	29	Positive			
(38) Werfen (IL)	RV	>>>	1	2,2	Positive			
(64) Exbio Olomouc	RV	>>>	1	2,2	Positive			
(80) DiaMed	RV	>>>	3	6,7	Positive			
(159) Grifols	RV	>>>	18	40	Positive			
(171) Diagast	RV	>>>	1	2,2	Positive			
(172) Immucor	RV	>>>	4	8,9	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	2,2	Positive			
(203) ANTITOXIN			1	2,2	Negative			
	RV	>>>	1	2,2	Positive			
(999) another manufacturer	RV	>>>	1	2,2	Positive			
Samples E2 and S2			45			45	43	96
(14) Bio-Rad	RV	>>>	13	29	Negative			
(38) Werfen (IL)			1	2,2	Positive			
(64) Exbio Olomouc	RV	>>>	1	2,2	Negative			
(80) DiaMed	RV	>>>	3	6,7	Negative			
(159) Grifols	RV	>>>	18	40	Negative			
(171) Diagast	RV	>>>	1	2,2	Negative			
(172) Immucor	RV	>>>	3	6,7	Negative			
			1	2,2	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	2,2	Negative			
(203) ANTITOXIN	RV	>>>	2	4,4	Negative			
(999) another manufacturer	RV	>>>	1	2,2	Negative			
(724) **Antigen S**			48			48	48	100
Samples E1 and S1			48			48	48	100
(14) Bio-Rad	RV	>>>	14	29	Negative			
(38) Werfen (IL)	RV	>>>	1	2,1	Negative			
(64) Exbio Olomouc	RV	>>>	1	2,1	Negative			
(80) DiaMed	RV	>>>	3	6,3	Negative			
(159) Grifols	RV	>>>	20	42	Negative			
(172) Immucor	RV	>>>	5	10	Negative			
(173) Sanguin	RV	>>>	1	2,1	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	2,1	Negative			
(203) ANTITOXIN	RV	>>>	2	4,2	Negative			
Samples E2 and S2			48			48	48	100
(14) Bio-Rad	RV	>>>	14	29	Negative			
(38) Werfen (IL)	RV	>>>	1	2,1	Negative			
(64) Exbio Olomouc	RV	>>>	1	2,1	Negative			
(80) DiaMed	RV	>>>	3	6,3	Negative			
(159) Grifols	RV	>>>	20	42	Negative			
(172) Immucor	RV	>>>	5	10	Negative			
(173) Sanguin	RV	>>>	1	2,1	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	2,1	Negative			
(203) ANTITOXIN	RV	>>>	2	4,2	Negative			
(725) **Antigen s**			48			48	48	100
Samples E1 and S1			48			48	48	100
(14) Bio-Rad	RV	>>>	14	29	Positive			
(38) Werfen (IL)	RV	>>>	1	2,1	Positive			
(64) Exbio Olomouc	RV	>>>	1	2,1	Positive			
(80) DiaMed	RV	>>>	3	6,3	Positive			
(159) Grifols	RV	>>>	20	42	Positive			
(171) Diagast	RV	>>>	1	2,1	Positive			
(172) Immucor	RV	>>>	5	10	Positive			
(173) Sanguin	RV	>>>	2	4,2	Positive			

Summary statistics - qualitative results

EQA round: IH3/26 - Blood Group Serology

Deadline: 2.10.2026

Setup: groups - R (manufacturer of kit)

Test / Sample / Group		AV	N_{tot}	N_{rel} [%]	Result	Success N_{eva}	Success N_{suc}	Success S_{rel} [%]
(203) ANTITOXIN	RV	>>>	1	2,1	Positive			
Samples E2 and S2			48			48	48	100
(14) Bio-Rad	RV	>>>	14	29	Positive			
(38) Werfen (IL)	RV	>>>	1	2,1	Positive			
(64) Exbio Olomouc	RV	>>>	1	2,1	Positive			
(80) DiaMed	RV	>>>	3	6,3	Positive			
(159) Grifols	RV	>>>	20	42	Positive			
(171) Diagast	RV	>>>	1	2,1	Positive			
(172) Immucor	RV	>>>	5	10	Positive			
(173) Sanguin	RV	>>>	2	4,2	Positive			
(203) ANTITOXIN	RV	>>>	1	2,1	Positive			
(733) **Antigen Le[a]**			38			38	38	100
Samples E1 and S1			38			38	38	100
(0) not specified	RV	>>>	1	2,6	Negative			
(14) Bio-Rad	RV	>>>	13	34	Negative			
(80) DiaMed	RV	>>>	2	5,3	Negative			
(159) Grifols	RV	>>>	14	37	Negative			
(172) Immucor	RV	>>>	3	7,9	Negative			
(173) Sanguin	RV	>>>	1	2,6	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	2,6	Negative			
(203) ANTITOXIN	RV	>>>	2	5,3	Negative			
(999) another manufacturer	RV	>>>	1	2,6	Negative			
Samples E2 and S2			38			38	38	100
(0) not specified	RV	>>>	1	2,6	Negative			
(14) Bio-Rad	RV	>>>	13	34	Negative			
(80) DiaMed	RV	>>>	2	5,3	Negative			
(159) Grifols	RV	>>>	14	37	Negative			
(172) Immucor	RV	>>>	3	7,9	Negative			
(173) Sanguin	RV	>>>	1	2,6	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	2,6	Negative			
(203) ANTITOXIN	RV	>>>	2	5,3	Negative			
(999) another manufacturer	RV	>>>	1	2,6	Negative			
(734) **Antigen Le[b]**			38			38	37	97
Samples E1 and S1			38			38	37	97
(0) not specified	RV	>>>	1	2,6	Positive			
(14) Bio-Rad	RV	>>>	13	34	Positive			
(80) DiaMed	RV	>>>	2	5,3	Positive			
(159) Grifols	RV	>>>	14	37	Positive			
(172) Immucor			1	2,6	Negative			
	RV	>>>	2	5,3	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	2,6	Positive			
(203) ANTITOXIN	RV	>>>	2	5,3	Positive			
(999) another manufacturer	RV	>>>	2	5,3	Positive			
Samples E2 and S2			38			38	38	100
(0) not specified	RV	>>>	1	2,6	Negative			
(14) Bio-Rad	RV	>>>	13	34	Negative			
(80) DiaMed	RV	>>>	2	5,3	Negative			
(159) Grifols	RV	>>>	14	37	Negative			
(172) Immucor	RV	>>>	3	7,9	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	2,6	Negative			
(203) ANTITOXIN	RV	>>>	2	5,3	Negative			
(999) another manufacturer	RV	>>>	2	5,3	Negative			
(731) **Antigen Lu[a]**			32			32	30	94
Samples E1 and S1			32			32	30	94
(14) Bio-Rad	RV	>>>	12	38	Negative			
(80) DiaMed	RV	>>>	2	6,3	Negative			
(159) Grifols	RV	>>>	14	44	Negative			
			2	6,3	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	3,1	Negative			
(999) another manufacturer	RV	>>>	1	3,1	Negative			
Samples E2 and S2			32			32	30	94
(14) Bio-Rad	RV	>>>	12	38	Negative			
(80) DiaMed	RV	>>>	2	6,3	Negative			
(159) Grifols	RV	>>>	14	44	Negative			
			2	6,3	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	3,1	Negative			
(999) another manufacturer	RV	>>>	1	3,1	Negative			

Summary statistics - qualitative results

EQA round: IH3/26 - Blood Group Serology

Deadline: 2.10.2026

Setup: groups - R (manufacturer of kit)

Test / Sample / Group		AV	N_{tot}	N_{rel} [%]	Result	N_{eva}	N_{suc}	S_{rel} [%]
						Success		
					Frequency of the results			
(732) **Antigen Lu[b]**			28			28	28	100
Samples E1 and S1			28			28	28	100
(14) Bio-Rad	RV	>>>	11	39	Positive			
(80) DiaMed	RV	>>>	2	7,1	Positive			
(159) Grifols	RV	>>>	14	50	Positive			
(171) Diagast	RV	>>>	1	3,6	Positive			
Samples E2 and S2			28			28	28	100
(14) Bio-Rad	RV	>>>	11	39	Positive			
(80) DiaMed	RV	>>>	2	7,1	Positive			
(159) Grifols	RV	>>>	14	50	Positive			
(171) Diagast	RV	>>>	1	3,6	Positive			
(726) **Antigen P1**			31			31	26	84
Samples E1 and S1			31			31	31	100
(0) not specified	RV	>>>	2	6,5	Negative			
(14) Bio-Rad	RV	>>>	9	29	Negative			
(64) Exbio Olomouc	RV	>>>	1	3,2	Negative			
(80) DiaMed	RV	>>>	2	6,5	Negative			
(159) Grifols	RV	>>>	9	29	Negative			
(172) Immucor	RV	>>>	2	6,5	Negative			
(173) Sanguin	RV	>>>	1	3,2	Negative			
(174) IVT Imuno	RV	>>>	1	3,2	Negative			
(183) Immunodiagnostic Systems	RV	>>>	1	3,2	Negative			
(203) ANTITOXIN	RV	>>>	1	3,2	Negative			
(999) another manufacturer	RV	>>>	2	6,5	Negative			
Samples E2 and S2			31			31	26	84
(0) not specified			1	3,2	Negative			
	RV	>>>	1	3,2	Positive			
(14) Bio-Rad			1	3,2	Negative			
	RV	>>>	8	26	Positive			
(64) Exbio Olomouc	RV	>>>	1	3,2	Positive			
(80) DiaMed	RV	>>>	2	6,5	Positive			
(159) Grifols			1	3,2	Not specified			
	RV	>>>	8	26	Positive			
(172) Immucor			1	3,2	Negative			
	RV	>>>	1	3,2	Positive			
(173) Sanguin			1	3,2	Negative			
(174) IVT Imuno	RV	>>>	1	3,2	Positive			
(183) Immunodiagnostic Systems	RV	>>>	1	3,2	Positive			
(203) ANTITOXIN	RV	>>>	1	3,2	Positive			
(999) another manufacturer	RV	>>>	2	6,5	Positive			
(740) **Antigen Wr[a]**			7			7	7	100
Samples E1 and S1			7			7	7	100
(14) Bio-Rad	RV	>>>	1	14	Negative			
(64) Exbio Olomouc	RV	>>>	1	14	Negative			
(159) Grifols	RV	>>>	2	29	Negative			
(172) Immucor	RV	>>>	3	43	Negative			
Samples E2 and S2			7			7	7	100
(14) Bio-Rad	RV	>>>	1	14	Negative			
(64) Exbio Olomouc	RV	>>>	1	14	Negative			
(159) Grifols	RV	>>>	2	29	Negative			
(172) Immucor	RV	>>>	3	43	Negative			
(737) **Direct Antiglobulin Test**			128			128	126	98
Samples E1 and S1			128			128	127	99
(0) not specified	RV	>>>	1	0,8	Negative			
(14) Bio-Rad	RV	>>>	58	45	Negative			
(40) Ortho Clinical Diagnostics	RV	>>>	3	2,3	Negative			
(64) Exbio Olomouc	RV	>>>	1	0,8	Negative			
(80) DiaMed	RV	>>>	10	7,8	Negative			
(159) Grifols	RV	>>>	54	42	Negative			
			1	0,8	Positive			
Samples E2 and S2			128			128	127	99
(0) not specified	RV	>>>	1	0,8	Negative			
(14) Bio-Rad	RV	>>>	58	45	Negative			
(40) Ortho Clinical Diagnostics	RV	>>>	3	2,3	Negative			
(64) Exbio Olomouc	RV	>>>	1	0,8	Negative			
(80) DiaMed	RV	>>>	10	7,8	Negative			
(159) Grifols	RV	>>>	54	42	Negative			
			1	0,8	Positive			

Summary statistics - qualitative results

EQA round: IH3/26 - Blood Group Serology

Deadline: 2.10.2026

Setup: groups - R (manufacturer of kit)

Test / Sample / Group		AV	N_{tot}	N_{rel} [%]	Result	N_{eva}	N_{suc}	S_{rel} [%]
					Frequency of the results		**Success**	
(741) **Antierythrocyte antibody screening (IAT, blood donor)**			74			74	74	100
Samples E1 and S1			74			74	74	100
(14) Bio-Rad	RV	>>>	31	42	Positive			
(80) DiaMed	RV	>>>	5	6,8	Positive			
(159) Grifols	RV	>>>	26	35	Positive			
(171) Diagast	RV	>>>	3	4,1	Positive			
(172) Immucor	RV	>>>	9	12	Positive			
Samples E2 and S2			74			74	74	100
(14) Bio-Rad	RV	>>>	31	42	Positive			
(80) DiaMed	RV	>>>	5	6,8	Positive			
(159) Grifols	RV	>>>	26	35	Positive			
(171) Diagast	RV	>>>	3	4,1	Positive			
(172) Immucor	RV	>>>	9	12	Positive			
(743) **Antierythrocyte antibody screening (IAT, recipient)**			143			143	143	100
Samples E1 and S1			143			143	143	100
(14) Bio-Rad	RV	>>>	60	42	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	4	2,8	Positive			
(80) DiaMed	RV	>>>	11	7,7	Positive			
(159) Grifols	RV	>>>	66	46	Positive			
(172) Immucor	RV	>>>	2	1,4	Positive			
Samples E2 and S2			143			143	143	100
(14) Bio-Rad	RV	>>>	60	42	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	4	2,8	Positive			
(80) DiaMed	RV	>>>	11	7,7	Positive			
(159) Grifols	RV	>>>	66	46	Positive			
(172) Immucor	RV	>>>	2	1,4	Positive			
(745) **Antierythrocyte antibody screening (IAT, pregnant)**			122			122	122	100
Samples E1 and S1			122			122	122	100
(0) not specified	RV	>>>	1	0,8	Positive			
(14) Bio-Rad	RV	>>>	50	41	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,8	Positive			
(64) Exbio Olomouc	RV	>>>	1	0,8	Positive			
(80) DiaMed	RV	>>>	7	5,7	Positive			
(159) Grifols	RV	>>>	59	48	Positive			
(172) Immucor	RV	>>>	3	2,5	Positive			
Samples E2 and S2			122			122	122	100
(0) not specified	RV	>>>	1	0,8	Positive			
(14) Bio-Rad	RV	>>>	50	41	Positive			
(40) Ortho Clinical Diagnostics	RV	>>>	1	0,8	Positive			
(64) Exbio Olomouc	RV	>>>	1	0,8	Positive			
(80) DiaMed	RV	>>>	7	5,7	Positive			
(159) Grifols	RV	>>>	59	48	Positive			
(172) Immucor	RV	>>>	3	2,5	Positive			
(747) **Antierythrocyte antibody screening (enzyme test)**			93			93	91	98
Samples E1 and S1			93			93	91	98
(14) Bio-Rad	RV	>>>	41	44	Negative			
(40) Ortho Clinical Diagnostics	RV	>>>	1	1,1	Negative			
(80) DiaMed	RV	>>>	5	5,4	Negative			
			1	1,1	Positive			
(159) Grifols	RV	>>>	43	46	Negative			
			1	1,1	Positive			
(172) Immucor	RV	>>>	1	1,1	Negative			
Samples E2 and S2			93			93	93	100
(14) Bio-Rad		>	3	3,2	Negative			
	RV	>>>	38	41	Positive			
(40) Ortho Clinical Diagnostics		>	1	1,1	Negative			
(80) DiaMed		>	1	1,1	Negative			
	RV	>>>	5	5,4	Positive			
(159) Grifols		>	1	1,1	Negative			
	RV	>>>	43	46	Positive			
(172) Immucor		>	1	1,1	Negative			
(750) **Antierythrocyte antibody identification**			50			50	50	100
Samples E1 and S1			50			50	50	100
(0) not specified	RV	>>>	50	100	anti-Fya			

Summary statistics - qualitative results

EQA round: IH3/26 - Blood Group Serology

Deadline: 2.10.2026

Setup: groups - R (manufacturer of kit)

Test / Sample / Group		AV	N_{tot}	N_{rel} [%]	Result	Success N_{eva}	Success N_{suc}	Success S_{rel} [%]
Samples E2 and S2			50			50	50	100
(0) not specified		>	6	12	anti-S			
	RV	>>>	44	88	anti-S; anti-C			
(752) **Antibody titre, Sample 1: 1st antibody**			41			0		
Samples E1 and S1			41			0		
(0) not specified		±	4	9,8	titre 2			
		±	7	17	titre 4			
		±	26	63	titre 8			
		±	4	9,8	titre 16			
(756) **Antibody titre, Sample 2: 1st antibody**			41			0		
Samples E2 and S2			41			0		
(0) not specified		±	9	22	titre 2			
		±	12	29	titre 4			
		±	19	46	titre 8			
		±	1	2,4	titre 16			
(757) **Antibody titre, Sample 2: 2nd antibody**			10			0		
Samples E2 and S2			10			0		
(0) not specified		±	4	40	titre 0 (not measurable)			
		±	6	60	titre 1			
Set 3								
(761) **Compatibility test (segment K1)**			115			115	114	99
Sample S1			115			115	115	100
(0) not specified	RV	>>>	115	100	Positive test			
Sample S2			115			115	114	99
(0) not specified	RV	>>>	114	99	Negative test			
			1	0,9	Positive test			
(762) **Serve transfusion product? (segment K1) (transfusion in non-emergency mode)**			114			0		
Sample S1			114			0		
(0) not specified		±	111	97	Impossible, risk of haemolysis			
		±	3	2,6	Decision depends on results of other tests not performed in our laboratory			
Sample S2			114			0		
(0) not specified		±	20	18	Impossible, risk of haemolysis			
		±	46	40	Decision depends on results of other tests not performed in our laboratory			
		±	34	30	Only if more suitable products are not available			
		±	14	12	Possible			
(764) **Compatibility test (segment K2)**			115			115	114	99
Sample S1			115			115	114	99
(0) not specified			1	0,9	Negative test			
	RV	>>>	114	99	Positive test			
Sample S2			115			115	115	100
(0) not specified	RV	>>>	115	100	Negative test			
(765) **Serve transfusion product? (segment K2) (transfusion in non-emergency mode)**			115			0		
Sample S1			115			0		
(0) not specified		±	110	96	Impossible, risk of haemolysis			
		±	5	4,3	Decision depends on results of other tests not performed in our laboratory			
Sample S2			115			0		
(0) not specified		±	1	0,9	Impossible, risk of haemolysis			
		±	55	48	Decision depends on results of other tests not performed in our laboratory			
		±	21	18	Only if more suitable products are not available			
		±	38	33	Possible			