

Report MQ 2023/1 Microbiology: Antibody and antigen tests

Summary

Sample	Results	Good	% Good
B01 Strep A	1213	1192	98.27
B04 Rubella	46	46	100.00
B05 Toxoplasmose	30	30	100.00
B06 Syphilis	57	57	100.00
B07 Cytomegalie	40	40	100.00
B08 Varicella	58	56	96.55
H11 Malaria rapid test	80	78	97.50
B20 Epstein-Bar-Virus	136	127	93.38
B21 Legionella urine	76	75	98.68
B22 S. pneumoniae urine	62	62	100.00
B24 RSV/Influenza rapid test	21	19	90.48
B27 Helicobacter Pylori Antigen	57	57	100.00
B30 Rota-/Adeno-/Norovirus Ag	48	47	97.92
B32 SARS-CoV-2 Antibody	35	35	100.00
B33 SARS-CoV-2 Ag	134	132	98.51
V01 HIV Schnelltest	29	28	96.55
B34 FSME IgG/IgM	8	8	100.00
B35 Masern/Parvovirus IgG/IgM	17	17	100.00
B36 SARS-CoV2+Flu+RSV	141	141	100.00
B39 Mycobacteria, microscopy	52	51	98.08
B42 HIV, Hepatitis B/C, Serologie	300	300	100.00
B43 Hepatitis A IgG / IgM	33	33	100.00
B44 Hepatitis E IgG / IgM	20	20	100.00
Total	2693	2651	98.44

B01 Strep A

	Target Value	negative	positive	% Conform
Rapid Test	positive	21	1175	98.24
Abbott	positive	0	3	100.00
NeoStrepA, Intex	positive	0	2	100.00
Quick Vue In-Line	positive	0	1	100.00
Other methods	positive	0	11	100.00
Total		21	1192	98.27

Commentary B01

The simulated liquid sample contained Streptococcus pyogenes. The correct result was "Strep-A positive".

B04 Rubella

Rubella IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	23	100.00

Rubella IgM	Target Value	negative	positive	% Conform
all Participants	negative	23	0	100.00

B05 Toxoplasmosis

Toxoplasma IgG	Target Value	negative	positive	% Conform
all Participants	negative	15	0	100.00

Toxoplasma IgM	Target Value	negative	positive	% Conform
all Participants	negative	15	0	100.00

B06 Syphilis

Syphilis TPPA	Target Value	negative	positive	% Conform
all Participants	positive	0	17	100.00

Treponema IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	6	100.00

Treponema IgM	Target Value	negative	positive	% Conform
all Participants	positive	0	4	100.00

Lues RPR/VDRL	Target Value	negative	positive	% Conform
all Participants	positive	0	15	100.00

Treponema IgG/IgM	Target Value	negative	positive	% Conform
all Participants	positive	0	11	100.00

Lues TPHA	Target Value	negative	positive	% Conform
all Participants	positive	0	4	100.00

B07 Cytomegalie

Cytomegalovirus IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	21	100.00

Cytomegalovirus IgM	Target Value	negative	positive	% Conform
all Participants	positive	0	19	100.00

B08 Varicella

Varicellen IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	29	100.00

Varicellen IgM	Target Value	negative	positive	% Conform
all Participants	negative	17	1	94.44

HSV1 IgG	Target Value	negative	positive	% Conform
Other methods	positive	0	4	100.00

HSV2 IgG	Target Value	negative	positive	% Conform
Other methods	negative	3	1	75.00

HSV1/2 IgM	Target Value	negative	positive	% Conform
Other methods	negative	3	0	100.00

H11 Malaria rapid test

Plasmodium sp (Pan)	Target Value	negative	positive	% Conform
Paramax	negative	1	0	100.00
BinaxNOW	positive	0	1	100.00
Illumipro-10	positive	0	1	100.00
Total		1	2	100.00

Malaria	Target Value	negative	positive	% Conform
Paramax	positive	0	36	100.00
BinaxNOW	positive	1	30	96.77
SD-Biosensor	positive	0	2	100.00
Illumipro-10	positive	0	1	100.00
Other methods	positive	0	2	100.00
Total		1	71	98.61

Plasmodium falciparum (Pf/T1)	Target Value	negative	positive	% Conform
Paramax	positive	0	1	100.00
BinaxNOW	positive	0	1	100.00
Total		0	2	100.00

Plasmodium Pv/Po/Pm	Target Value	negative	positive	% Conform
Paramax	negative	1	0	100.00
BinaxNOW	positive	1	1	50.00
Total		2	1	66.67

Commentary H11

The sample contained Plasmodium falciparum. Depending on the rapid test, different antigens of the plasmodia are detected. Therefore, in the future we will only evaluate the interpretation of the results "Malaria positive or negative". Please check whether the indication on the evaluation corresponds to the designation of your test and inform us of any changes.

B20 Epstein-Bar-Virus

EBV heterophilic antibodies	Target Value	negative	positive	% Conform
Rapid Test	negative	47	0	100.00

EBV EBNA-1 IgG	Target Value	negative	positive	% Conform
Abbott	positive	0	6	100.00
Other methods	positive	1	23	95.83
Total		1	29	96.67

EBV VCA-IgG	Target Value	negative	positive	% Conform
Abbott	positive	0	7	100.00
Other methods	positive	0	22	100.00
Total		0	29	100.00

EBV VCA-IgM	Target Value	negative	positive	% Conform
Abbott	positive	0	7	100.00
Other methods	positive	8	15	65.22
Total		8	22	73.33

B21 Legionella urine

	Target Value	negative	positive	% Conform
Quidel Sofia	negative	21	1	95.45
BinaxNOW	negative	36	0	100.00
Other methods	negative	18	0	100.00
Total		75	1	98.68

B22 S. pneumoniae urine

	Target Value	negative	positive	% Conform
Quidel Sofia	positive	0	20	100.00
BinaxNOW	positive	0	27	100.00
Other methods	positive	0	15	100.00
Total		0	62	100.00

B24 RSV/Influenza rapid test

RSV Antigen	Target Value	negative	positive	% Conform
Quidel Sofia	negative	2	0	100.00
BinaxNOW	negative	3	0	100.00
Other methods	negative	9	1	90.00
Total		14	1	93.33

Influenza Ag	Target Value	negative	positive	% Conform
Quidel Sofia	positive	0	1	100.00
Other methods	positive	1	4	80.00
Total		1	5	83.33

B27 Helicobacter Pylori Antigen

	Target Value	negative	positive	% Conform
Rapid Test	positive	0	28	100.00
Meridian STAT! HpSA	positive	0	8	100.00
Liaison	positive	0	9	100.00
CerTest Biotec	positive	0	7	100.00
Oxoid RAPID Hp StAR	positive	0	5	100.00
Total		0	57	100.00

B30 Rota-/Adeno-/Norovirus Ag

Rotavirus Ag	Target Value	negative	positive	% Conform
all Participants	negative	20	1	95.24

Adenovirus Ag	Target Value	negative	positive	% Conform
all Participants	negative	21	0	100.00

Norovirus Ag	Target Value	negative	positive	% Conform
all Participants	positive	0	6	100.00

B32 SARS-CoV-2 Antibody

SARS-CoV-2 IgG/A/M	Target Value	negative	positive	% Conform
Roche, Cobas	positive	0	3	100.00

SARS-CoV-2 IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	8	100.00

SARS-CoV-2 IgM	Target Value	negative	positive	% Conform
all Participants	negative	2	0	100.00

SARS-CoV-2 IgG Spike 1	Target Value	negative	positive	% Conform
all Participants	positive	0	15	100.00

SARS-CoV-2 IgG NCP	Target Value	Borderline/Neg	positive	% Conform
all Participants	Borderline/Negati	4	0	100.00

SARS-CoV-2 IgG Spike 2 Ak	Target Value	negative	positive	% Conform
all Participants	positive	0	3	100.00

Commentary B32

The serum came from a coworker who has gone through corona 8 months ago and had been vaccinated multiple times. The antibodies against NCP are only weakly positive, which is why we evaluated borderline and negative as correct.

B33 SARS-CoV-2 Ag

	Target Value	negative	positive	% Conform
Roche	negative	78	1	98.73
Abbott Panbio	negative	13	1	92.86
Other methods	negative	41	0	100.00
Total		132	2	98.51

V01 HIV Schnelltest

	Target Value	negative	positive	% Conform
Determine HIV 1/2	positive	0	18	100.00
Other methods	positive	1	10	90.91
Total		1	28	96.55

B34 FSME IgG/IgM

FSME IgG	Target Value	negative	positive	% Conform
all Participants	negative	4	0	100.00

FSME IgM	Target Value	negative	positive	% Conform
all Participants	negative	4	0	100.00

B35 Masern/Parvovirus IgG/IgM

Masern IgG	Target Value	negative	positive	% Conform
all Participants	negative	5	0	100.00

Masern IgM	Target Value	negative	positive	% Conform
all Participants	negative	4	0	100.00

Parvovirus B19 IgG	Target Value	Borderline/Neg	positive	% Conform
all Participants	Borderline/Negati	3	0	100.00

Parvovirus B19 IgM	Target Value	negative	positive	% Conform
all Participants	negative	5	0	100.00

B36 SARS-CoV2+Flu+RSV

SARS CoV-2	Target Value	negative	positive	% Conform
Genexpert	positive	0	28	100.00
Other methods	positive	0	13	100.00
Total		0	41	100.00

Influenza A	Target Value	negative	positive	% Conform
Genexpert	negative	24	0	100.00
Other methods	negative	9	0	100.00
Total		33	0	100.00

Influenza B	Target Value	negative	positive	% Conform
Genexpert	positive	0	25	100.00
Other methods	positive	0	10	100.00
Total		0	35	100.00

RSV	Target Value	negative	positive	% Conform
Genexpert	negative	24	0	100.00
Other methods	negative	8	0	100.00
Total		32	0	100.00

B39 Mycobacteria, microscopy

Acid-fast bacilli A	Target Value	negative	positive	% Conform
Ziehl-Neelsen	positive	0	23	100.00
Auramin-Rhodamin	positive	0	3	100.00
Total		0	26	100.00

Acid-fast bacilli B	Target Value	negative	positive	% Conform
Ziehl-Neelsen	positive	1	22	95.65
Auramin-Rhodamin	positive	0	3	100.00
Total		1	25	96.15

B42 HIV, Hepatitis B/C, Serologie

HIV 1/2 Combo sample A	Target Value	negative	positive	% Conform
Abbott	positive	0	10	100.00
Roche, Cobas	positive	0	7	100.00
all Participants	positive	0	6	100.00
Total		0	23	100.00

HIV 1/2 ig sample A	Target Value	negative	positive	% Conform
Abbott	positive	0	1	100.00
Roche, Cobas	positive	0	1	100.00
Total		0	2	100.00

HIV 1/2 p24 sample A	Target Value	negative	positive	% Conform
Abbott	positive	0	1	100.00

HBs Ig sample A	Target Value	negative	positive	% Conform
Abbott	negative	8	0	100.00
Roche, Cobas	negative	7	0	100.00
Other methods	negative	4	0	100.00
Total		19	0	100.00

HBs Ag sample A	Target Value	negative	positive	% Conform
Abbott	negative	7	0	100.00
Roche, Cobas	negative	7	0	100.00
Other methods	negative	5	0	100.00
Total		19	0	100.00

HBc Ig sample A	Target Value	negative	positive	% Conform
Abbott	negative	8	0	100.00
Roche, Cobas	negative	8	0	100.00
Other methods	negative	5	0	100.00
Total		21	0	100.00

HBc IgM sample A	Target Value	negative	positive	% Conform
Abbott	negative	7	0	100.00
Roche, Cobas	negative	3	0	100.00
Other methods	negative	4	0	100.00
Total		14	0	100.00

HBe Ig sample A	Target Value	negative	positive	% Conform
Abbott	negative	7	0	100.00
Roche, Cobas	negative	3	0	100.00
Other methods	negative	5	0	100.00
Total		15	0	100.00

HBe Ag sample A	Target Value	negative	positive	% Conform
Abbott	negative	7	0	100.00
Roche, Cobas	negative	3	0	100.00
Other methods	negative	5	0	100.00
Total		15	0	100.00

HCV Ig sample A	Target Value	negative	positive	% Conform
Abbott	negative	8	0	100.00
Roche, Cobas	negative	6	0	100.00
Other methods	negative	6	0	100.00
Total		20	0	100.00

HIV 1/2 Combo sample B	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	8	0	100.00
all Participants	negative	6	0	100.00
Total		23	0	100.00

HIV 1/2 ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	1	0	100.00
Roche, Cobas	negative	1	0	100.00
Total		2	0	100.00

HIV 1/2 p24 sample B	Target Value	negative	positive	% Conform
Abbott	negative	1	0	100.00

HBs Ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	8	0	100.00
Roche, Cobas	negative	8	0	100.00
Other methods	negative	4	0	100.00
Total		20	0	100.00

HBs Ag sample B	Target Value	negative	positive	% Conform
Abbott	negative	7	0	100.00
Roche, Cobas	negative	7	0	100.00
Other methods	negative	5	0	100.00
Total		19	0	100.00

HBc Ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	8	0	100.00
Roche, Cobas	negative	8	0	100.00
Other methods	negative	5	0	100.00
Total		21	0	100.00

HBc IgM sample B	Target Value	negative	positive	% Conform
Abbott	negative	7	0	100.00
Roche, Cobas	negative	5	0	100.00
Other methods	negative	4	0	100.00
Total		16	0	100.00

HBe Ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	6	0	100.00
Roche, Cobas	negative	3	0	100.00
Other methods	negative	5	0	100.00
Total		14	0	100.00

HBe Ag sample B	Target Value	negative	positive	% Conform
Abbott	negative	7	0	100.00
Roche, Cobas	negative	3	0	100.00
Other methods	negative	5	0	100.00
Total		15	0	100.00

HCV Ig sample B	Target Value	negative	positive	% Conform
Abbott	positive	0	8	100.00
Roche, Cobas	positive	0	6	100.00
Other methods	positive	0	6	100.00
Total		0	20	100.00

B43 Hepatitis A IgG / IgM

HAV Ig	Target Value	negative	positive	% Conform
Roche, Cobas	positive	0	4	100.00
Other methods	positive	0	5	100.00
Total		0	9	100.00

HAV IgG	Target Value	negative	positive	% Conform
Abbott	positive	0	8	100.00

HAV IgM	Target Value	negative	positive	% Conform
Abbott	negative	8	0	100.00
Roche, Cobas	negative	3	0	100.00
Other methods	negative	5	0	100.00
Total		16	0	100.00

B44 Hepatitis E IgG / IgM

HEV IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	10	100.00

HEV IgM	Target Value	negative	positive	% Conform
all Participants	positive	0	10	100.00
