

Report MQ 2023/2 Microbiology: Antibody and antigen tests

Summary

Sample	Results	Good	% Good
B01 Strep A	1210	1190	98.35
B04 Rubella	48	48	100.00
B05 Toxoplasmose	32	32	100.00
B06 Syphilis	58	58	100.00
B07 Cytomegalie	43	42	97.67
B08 Varicella	61	61	100.00
H11 Malaria rapid test	78	78	100.00
B20 Epstein-Bar-Virus	133	131	98.50
B21 Legionella antigenurine	75	74	98.67
B22 S. pneumoniae antigen urine	63	63	100.00
B24 RSV/Influenza rapid test	21	21	100.00
B27 Helicobacter Pylori Antigen	57	55	96.49
B30 Rota-/Adeno-/Norovirus Ag	52	52	100.00
B32 SARS-CoV-2 Antibody	31	31	100.00
B33 SARS-CoV-2 Ag	102	100	98.04
V01 HIV Schnelltest	25	25	100.00
B34 FSME IgG/IgM	8	8	100.00
B35 Masern/Parvovirus IgG/IgM	25	23	92.00
B36 SARS-CoV2+Flu+RSV	148	148	100.00
B39 Mycobacteria, microscopy	54	53	98.15
B42 HIV, Hepatitis B/C, Serologie	297	297	100.00
B43 Hepatitis A IgG / IgM	33	33	100.00
B44 Hepatitis E IgG / IgM	20	20	100.00
Total	2674	2643	98.84

B01 Strep A

	Target Value	negative	positive	% Conform
Rapid Test	positive	20	1173	98.32
Abbott	positive	0	3	100.00
NeoStrepA, Intex	positive	0	3	100.00
Quick Vue In-Line	positive	0	1	100.00
Other methods	positive	0	10	100.00
Total		20	1190	98.35

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	24	100.00

Rubella IgM	Target Value	negative	positive	% Conform
all Participants	negative	24	0	100.00

B05 Toxoplasmosis

Toxoplasma IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	16	100.00

Toxoplasma IgM	Target Value	negative	positive	% Conform
all Participants	positive	0	16	100.00

B06 Syphilis

Syphilis TPPA	Target Value	negative	positive	% Conform
all Participants	positive	0	16	100.00

Treponema IgG	Target Value	negative	positive	% Conform
EIA	positive	0	7	100.00

Treponema IgM	Target Value	negative	positive	% Conform
EIA	positive	0	5	100.00

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

Treponema Ig (Screening)	Target Value	negative	positive	% Conform
all Participants	positive	0	11	100.00

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

B07 Cytomegalie

Cytomegalovirus IgG	Target Value	negative	positive	% Conform
all Participants	negative	21	1	95.45

Cytomegalovirus IgM	Target Value	negative	positive	% Conform
all Participants	negative	21	0	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	18	0	100.00

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

HSV2 IgG	Target Value	negative	positive	% Conform
Other methods	negative	5	0	100.00

HSV1/2 IgM	Target Value	negative	positive	% Conform
Other methods	negative	5	0	100.00

H11 Malaria rapid test

	Target Value	negative	positive	% Conform
Paramax	negative	31	0	100.00
BinaxNOW	negative	36	0	100.00
SD-Biosensor	negative	5	0	100.00
Illumipro-10	negative	2	0	100.00
Other methods	negative	4	0	100.00
Total		78	0	100.00

B20 Epstein-Bar-Virus

EBV heterophilic antibodies	Target Value	negative	positive	% Conform
Rapid Test	negative	49	0	100.00

EBV EBNA-1 IgG	Target Value	negative	positive	% Conform
Abbott	positive	0	6	100.00
Liaison	positive	0	6	100.00
VIDAS	positive	0	6	100.00
Other methods	positive	0	10	100.00
Total		0	28	100.00

EBV VCA-IgG	Target Value	negative	positive	% Conform
Abbott	positive	0	7	100.00
Liaison	positive	0	6	100.00
VIDAS	positive	0	6	100.00
Other methods	positive	0	11	100.00
Total		0	30	100.00

EBV VCA-IgM	Target Value	Borderline/Neg	positive	% Conform
Abbott	Borderline/Negati	5	0	100.00
Liaison	negative	1	2	33.33
VIDAS	negative	6	0	100.00
Other methods	negative	12	0	100.00
Total		24	2	92.31

Commentary B20

The serum comes from an employee who had an EBV infection several years ago.

B21 Legionella antigenurine

	Target Value	negative	positive	% Conform
Quidel Sofia	positive	0	20	100.00
BinaxNOW	positive	1	35	97.22
Other methods	positive	0	19	100.00
Total		1	74	98.67

B22 S. pneumoniae antigen urine

	Target Value	negative	positive	% Conform
Quidel Sofia	positive	0	18	100.00
BinaxNOW	positive	0	28	100.00
Other methods	positive	0	17	100.00
Total		0	63	100.00

B24 RSV/Influenza rapid test

RSV Antigen	Target Value	negative	positive	% Conform
Quidel Sofia	negative	1	0	100.00
BinaxNOW	negative	4	0	100.00
Other methods	negative	10	0	100.00
Total		15	0	100.00

Influenza Ag	Target Value	negative	positive	% Conform
Other methods	negative	6	0	100.00

B27 Helicobacter Pylori Antigen

	Target Value	negative	positive	% Conform
Rapid Test	positive	0	26	100.00
Meridian STAT! HpSA	positive	1	8	88.89
Liaison	positive	0	11	100.00
CerTest Biotec	positive	0	7	100.00
Oxoid RAPID Hp StAR	positive	1	3	75.00
Total		2	55	96.49

B30 Rota-/Adeno-/Norovirus Ag

Rotavirus Ag	Target Value	negative	positive	% Conform
all Participants	negative	22	0	100.00

Adenovirus Ag	Target Value	negative	positive	% Conform
all Participants	negative	22	0	100.00

Norovirus Ag	Target Value	negative	positive	% Conform
all Participants	negative	8	0	100.00

B32 SARS-CoV-2 Antibody

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

SARS-CoV-2 IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	6	100.00

SARS-CoV-2 IgM	Target Value	negative	positive	% Conform
all Participants	negative	1	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	3	0	100.00

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

B33 SARS-CoV-2 Ag

	Target Value	negative	positive	% Conform
Roche	positive	1	60	98.36
Abbott Panbio	positive	1	11	91.67
Other methods	positive	0	29	100.00
Total		2	100	98.04

V01 HIV Schnelltest

	Target Value	negative	positive	% Conform
Determine HIV 1/2	negative	16	0	100.00
Other methods	negative	9	0	100.00
Total		25	0	100.00

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	positive	2	4	66.67

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

Parvovirus B19 IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	7	100.00

Parvovirus B19 IgM	Target Value	negative	positive	% Conform
all Participants	negative	7	0	100.00

B36 SARS-CoV2+Flu+RSV

SARS CoV-2	Target Value	negative	positive	% Conform
Genexpert	negative	29	0	100.00
Other methods	negative	14	0	100.00
Total		43	0	100.00

Influenza A	Target Value	negative	positive	% Conform
Genexpert	positive	0	25	100.00
Other methods	positive	0	11	100.00
Total		0	36	100.00

Influenza B	Target Value	negative	positive	% Conform
Genexpert	negative	26	0	100.00
Other methods	negative	10	0	100.00
Total		36	0	100.00

RSV	Target Value	negative	positive	% Conform
Genexpert	negative	25	0	100.00
Other methods	negative	8	0	100.00
Total		33	0	100.00

B39 Mycobacteria, microscopy

Acid-fast bacilli A	Target Value	negative	positive	% Conform
Ziehl-Neelsen	negative	22	1	95.65
Auramin-Rhodamin	negative	4	0	100.00
Total		26	1	96.30

Acid-fast bacilli B	Target Value	negative	positive	% Conform
Ziehl-Neelsen	positive	0	23	100.00
Auramin-Rhodamin	positive	0	4	100.00
Total		0	27	100.00

B42 HIV, Hepatitis B/C, Serologie

HIV 1/2 Combo sample A	Target Value	negative	positive	% Conform
Abbott	negative	11	0	100.00
Roche, Cobas	negative	7	0	100.00
all Participants	negative	7	0	100.00
Total		25	0	100.00

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

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

HBs Ig sample A	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	6	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	positive	0	9	100.00
Roche, Cobas	positive	0	6	100.00
Other methods	positive	0	5	100.00
Total		0	20	100.00

HBc Ig sample A	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	7	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	8	0	100.00
Roche, Cobas	negative	2	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	8	0	100.00
Roche, Cobas	negative	3	0	100.00
Other methods	negative	2	0	100.00
Total		13	0	100.00

HBe Ag sample A	Target Value	negative	positive	% Conform
Abbott	positive	0	8	100.00
Roche, Cobas	positive	0	3	100.00
Other methods	positive	0	2	100.00
Total		0	13	100.00

HCV Ig sample A	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	5	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	positive	0	10	100.00
Roche, Cobas	positive	0	8	100.00
all Participants	positive	0	7	100.00
Total		0	25	100.00

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

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

HBs Ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	7	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	9	0	100.00
Roche, Cobas	negative	6	0	100.00
Other methods	negative	5	0	100.00
Total		20	0	100.00

HBc Ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	7	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	8	0	100.00
Roche, Cobas	negative	4	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	8	0	100.00
Roche, Cobas	negative	3	0	100.00
Other methods	negative	2	0	100.00
Total		13	0	100.00

HBe Ag sample B	Target Value	negative	positive	% Conform
Abbott	negative	8	0	100.00
Roche, Cobas	negative	3	0	100.00
Other methods	negative	2	0	100.00
Total		13	0	100.00

HCV Ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	5	0	100.00
Other methods	negative	6	0	100.00
Total		20	0	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	negative	10	0	100.00

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