

Report MQ 2024/1 Microbiology: Antibody and antigen tests

Summary

Sample	Results	Good	% Good
B01 Strep A Antigen	1228	1215	98.94
B04 Rubella / Mumps IgG/IgM	82	81	98.78
B05 Toxoplasmosis IgG/IgM	50	50	100.00
B06 Lues / syphilis serology	76	70	92.11
B07 Cytomegalovirus IgG/IgM	70	70	100.00
B08 Varicella / HSV1/2 IgG/IgM	89	85	95.51
B20 Epstein-Barr-Virus IgG/IgM	166	160	96.39
B21 Legionella antigen urine	76	76	100.00
B22 S. pneumoniae antigen urine	65	65	100.00
B24 RSV/Influenza rapid test	25	24	96.00
B27 Helicobacter Pylori Antigen	64	63	98.44
B30 Rota-/Adeno-/Norovirus Ag	64	60	93.75
B32 SARS-CoV-2 IgG/IgM	22	22	100.00
B34 FSME IgG/IgM	8	8	100.00
B35 Masern/Parvovirus IgG/IgM	42	42	100.00
B37 C. Diff Ag (GDH, Toxin A/B)	54	54	100.00
B38 H. pylori Urease-Test	2	2	100.00
B39 Mycobacteria, microscopy	50	50	100.00
B42 HIV, Hepatitis B/C, Serologie	437	437	100.00
B43 Hepatitis A IgG / IgM	65	65	100.00
B44 Hepatitis E IgG / IgM	22	22	100.00
H11 Malaria rapid test / NAT	93	92	98.92
V01 HIV Schnelltest	25	24	96.00
Total	2875	2837	98.68

B01 Strep A Antigen

Strep A	Target Value	negative	border	positive	% Conform
Rapid Test	negative	1215	1	12	98.94

Commentary B01

The sample did not contain any pathogenic germs. The correct result was "Strep-A negative".

B04 Rubella / Mumps IgG/IgM

Rubella IgG	Target Value	negative	positive	% Conform
all Participants	positive	1	38	97.44

Rubella IgM	Target Value	negative	positive	% Conform
all Participants	negative	34	0	100.00

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

Mumps IgM	Target Value	negative	positive	% Conform
all Participants	negative	3	0	100.00

B05 Toxoplasmosis IgG/IgM

Toxoplasma IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	25	100.00

Toxoplasma IgM	Target Value	negative	positive	% Conform
all Participants	positive	0	25	100.00

B06 Lues / syphilis serology

Syphilis TPPA	Target Value	negative	positive	% Conform
all Participants	positive	2	15	88.24

Treponema IgG	Target Value	negative	positive	% Conform
EIA	positive	1	9	90.00

Treponema IgM	Target Value	negative	positive	% Conform
EIA	positive	3	5	62.50

RPR/VDRL	Target Value	negative	positive	% Conform
all Participants	positive	0	19	100.00

Treponema Screening (Ig total)	Target Value	negative	positive	% Conform
all Participants	positive	0	14	100.00

Treponema TPHA	Target Value	negative	positive	% Conform
all Participants	positive	0	8	100.00

B07 Cytomegalovirus IgG/IgM

Cytomegalovirus IgG	Target Value	negative	border	positive	% Conform
all Participants	Borderline/neg	23	14	0	100.00

Cytomegalovirus IgM	Target Value	negative	border	positive	% Conform
all Participants	negative	33	0	0	100.00

B08 Varicella / HSV1/2 IgG/IgM

Varicellen IgG	Target Value	negative	border	positive	% Conform
all Participants	positive	0	0	34	100.00

Varicellen IgM	Target Value	negative	border	positive	% Conform
all Participants	negative	22	0	0	100.00

HSV 1/2 IgG	Target Value	negative	border	positive	% Conform
all Participants	positive	0	0	3	100.00

HSV1 IgG	Target Value	negative	border	positive	% Conform
all Participants	positive	0	0	9	100.00

HSV2 IgG	Target Value	negative	border	positive	% Conform
all Participants	negative	8	0	1	88.89

HSV1/2 IgM	Target Value	negative	border	positive	% Conform
all Participants	Borderline/pos	3	1	8	75.00

B20 Epstein-Barr-Virus IgG/IgM

EBV heterophilic antibodies	Target Value	negative	border	positive	% Conform
Rapid Test	positive	3	1	56	93.33

EBV EBNA-1 IgG	Target Value	negative	border	positive	% Conform
Abbott	negative	9	0	0	100.00
Liaison	negative	6	0	0	100.00
VIDAS	negative	7	0	0	100.00
Other methods	negative	12	0	1	92.31
Total		34	0	1	97.14

EBV VCA-IgG	Target Value	negative	border	positive	% Conform
Abbott	not rateable	8	0	2	100.00
Liaison	not rateable	1	0	5	100.00
VIDAS	not rateable	2	0	5	100.00
Other methods	not rateable	7	1	4	100.00
Total		18	1	16	100.00

EBV VCA-IgM	Target Value	negative	border	positive	% Conform
Abbott	Borderline/pos	1	6	2	88.89
Liaison	Borderline/pos	0	0	6	100.00
VIDAS	Borderline/pos	0	0	7	100.00
Other methods	Borderline/pos	0	3	11	100.00
Total		1	9	26	97.22

Commentary B20

The sample came from a patient who was suffering from an acute EBV infection.

EBV VCA-IgG: The concentration was very close to the cut-off, which is why we did not evaluate this test.

B21 Legionella antigen urine

Legionella antigen urine	Target Value	negative	positive	% Conform
Quidel Sofia	positive	0	18	100.00
BinaxNOW	positive	0	34	100.00
Other methods	positive	0	24	100.00
Total		0	76	100.00

B22 S. pneumoniae antigen urine

S. pneumoniae antigen urine	Target Value	negative	positive	% Conform
Quidel Sofia	negative	17	0	100.00
BinaxNOW	negative	27	0	100.00
Other methods	negative	21	0	100.00
Total		65	0	100.00

B24 RSV/Influenza rapid test

RSV Antigen	Target Value	negative	positive	% Conform
BinaxNOW	negative	4	0	100.00
Other methods	negative	12	1	92.31
Total		16	1	94.12

Influenza Ag	Target Value	negative	positive	% Conform
Other methods	positive	0	8	100.00

B27 Helicobacter Pylori Antigen

Helicobacter pylori antigen	Target Value	negative	positive	% Conform
Rapid Test	negative	30	0	100.00
Meridian STAT! HpSA	negative	6	1	85.71
Liaison	negative	13	0	100.00
CerTest Biotec	negative	9	0	100.00
Oxoid RAPID Hp StAR	negative	5	0	100.00
Total		63	1	98.44

B30 Rota-/Adeno-/Norovirus Ag

Rotavirus Ag	Target Value	negative	positive	% Conform
all Participants	positive	4	24	85.71

Adenovirus Ag	Target Value	negative	positive	% Conform
all Participants	negative	28	0	100.00

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

B32 SARS-CoV-2 IgG/IgM

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

SARS-CoV-2 IgG	Target Value	negative	border	positive	% Conform
all Participants	positive	0	0	5	100.00

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

SARS-CoV-2 IgG Spike 1	Target Value	negative	border	positive	% Conform
all Participants	positive	0	0	9	100.00

SARS-CoV-2 IgG NCP	Target Value	negative	border	positive	% Conform
all Participants	Borderline/pos	0	1	2	100.00

SARS-CoV-2 IgG Spike 2 Ak	Target Value	negative	border	positive	% Conform
all Participants	positive	0	0	2	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	0	12	100.00

Masern IgM	Target Value	negative	positive	% Conform
all Participants	negative	8	0	100.00

Parvovirus B19 IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	11	100.00

Parvovirus B19 IgM	Target Value	negative	positive	% Conform
all Participants	negative	11	0	100.00

B37 C. Diff Ag (GDH, Toxin A/B)

C. Diff GDH	Target Value	negative	positive	% Conform
all Participants	positive	0	16	100.00
Techlab C.Diff Quick Chek	positive	0	9	100.00
Total		0	25	100.00

C. Diff Toxin A	Target Value	negative	positive	% Conform
all Participants	negative	3	0	100.00

C. Diff Toxin B	Target Value	negative	positive	% Conform
all Participants	positive	0	3	100.00

C. Diff Tox A/B	Target Value	negative	positive	% Conform
Other methods	positive	0	10	100.00
Techlab C.Diff Quick Chek	positive	0	13	100.00
Total		0	23	100.00

B38 H. pylori Urease-Test

H. pylori Urease-Test	Target Value	negative	positive	% Conform
Rapid Test	positive	0	2	100.00

B39 Mycobacteria, microscopy

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

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

B42 HIV, Hepatitis B/C, Serologie

HIV 1/2 Combo sample A	Target Value	negative	positive	% Conform
Abbott	positive	0	13	100.00
Roche, Cobas	positive	0	16	100.00
all Participants	positive	0	7	100.00
Total		0	36	100.00

HIV 1/2 ig sample A	Target Value	negative	positive	% Conform
Abbott	positive	0	2	100.00
Roche, Cobas	positive	0	1	100.00
Total		0	3	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	13	0	100.00
Roche, Cobas	negative	12	0	100.00
Other methods	negative	3	0	100.00
Total		28	0	100.00

HBs Ag sample A	Target Value	negative	positive	% Conform
Abbott	negative	13	0	100.00
Roche, Cobas	negative	13	0	100.00
Other methods	negative	5	0	100.00
Total		31	0	100.00

HBc Ig sample A	Target Value	negative	positive	% Conform
Abbott	negative	13	0	100.00
Roche, Cobas	negative	13	0	100.00
Other methods	negative	4	0	100.00
Total		30	0	100.00

HBc IgM sample A	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	7	0	100.00
Other methods	negative	2	0	100.00
Total		18	0	100.00

HBe Ig sample A	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	7	0	100.00
Other methods	negative	1	0	100.00
Total		17	0	100.00

HBe Ag sample A	Target Value	negative	positive	% Conform
Abbott	negative	10	0	100.00
Roche, Cobas	negative	7	0	100.00
Other methods	negative	2	0	100.00
Total		19	0	100.00

HCV Ig sample A	Target Value	negative	positive	% Conform
Abbott	negative	13	0	100.00
Roche, Cobas	negative	13	0	100.00
Other methods	negative	8	0	100.00
Total		34	0	100.00

HIV 1/2 Combo sample B	Target Value	negative	positive	% Conform
Abbott	negative	13	0	100.00
Roche, Cobas	negative	16	0	100.00
all Participants	negative	7	0	100.00
Total		36	0	100.00

HIV 1/2 ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	2	0	100.00
Roche, Cobas	negative	1	0	100.00
Total		3	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	13	0	100.00
Roche, Cobas	negative	13	0	100.00
Other methods	negative	3	0	100.00
Total		29	0	100.00

HBs Ag sample B	Target Value	negative	positive	% Conform
Abbott	negative	13	0	100.00
Roche, Cobas	negative	13	0	100.00
Other methods	negative	5	0	100.00
Total		31	0	100.00

HBc Ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	13	0	100.00
Roche, Cobas	negative	13	0	100.00
Other methods	negative	4	0	100.00
Total		30	0	100.00

HBc IgM sample B	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	9	0	100.00
Other methods	negative	2	0	100.00
Total		20	0	100.00

HBe Ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	7	0	100.00
Other methods	negative	1	0	100.00
Total		17	0	100.00

HBe Ag sample B	Target Value	negative	positive	% Conform
Abbott	negative	10	0	100.00
Roche, Cobas	negative	7	0	100.00
Other methods	negative	2	0	100.00
Total		19	0	100.00

HCV Ig sample B	Target Value	negative	positive	% Conform
Abbott	positive	0	13	100.00
Roche, Cobas	positive	0	14	100.00
Other methods	positive	0	7	100.00
Total		0	34	100.00

B43 Hepatitis A IgG / IgM

HAV Ig	Target Value	negative	positive	% Conform
Roche, Cobas	positive	0	12	100.00
Other methods	positive	0	7	100.00
Total		0	19	100.00

HAV IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	3	100.00
Abbott	positive	0	11	100.00
Total		0	14	100.00

HAV IgM	Target Value	negative	positive	% Conform
Abbott	negative	11	0	100.00
Roche, Cobas	negative	12	0	100.00
Other methods	negative	9	0	100.00
Total		32	0	100.00

B44 Hepatitis E IgG / IgM

HEV IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	11	100.00

HEV IgM	Target Value	negative	positive	% Conform
all Participants	positive	0	11	100.00

H11 Malaria rapid test / NAT

Malaria	Target Value	negative	positive	% Conform
Paramax	positive	0	15	100.00
BinaxNOW	positive	1	34	97.14
SD-Biosensor	positive	0	30	100.00
Illumipro-10	positive	0	3	100.00
Other methods	positive	0	10	100.00
Total		1	92	98.92

Commentary H11

The sample contained *Plasmodium falciparum*. The result was positive.

V01 HIV Schnelltest

HIV Rapid Test	Target Value	negative	positive	% Conform
Determine HIV 1/2	negative	16	1	94.12
Other methods	negative	8	0	100.00
Total		24	1	96.00