

Report MQ 2023/4 Microbiology: Antibody and antigen tests

Summary

Sample	Results	Good	% Good
B01 Strep A	1218	1190	97.70
B04 Rubella	49	49	100.00
B05 Toxoplasmosis	34	34	100.00
B06 Syphilis	62	62	100.00
B07 Cytomegalie	42	42	100.00
B08 Varicella	57	57	100.00
H11 Malaria rapid test / NAT	89	89	100.00
B20 Epstein-Bar-Virus	143	142	99.30
B21 Legionella antigenurine	74	74	100.00
B22 S. pneumoniae antigen urine	65	65	100.00
B24 RSV/Influenza rapid test	23	18	78.26
B27 Helicobacter Pylori Antigen	64	63	98.44
B30 Rota-/Adeno-/Norovirus Ag	56	54	96.43
B32 SARS-CoV-2 Antibody	25	25	100.00
B33 SARS-CoV-2 Ag	84	84	100.00
V01 HIV Schnelltest	26	26	100.00
B34 FSME IgG/IgM	8	8	100.00
B35 Masern/Parvovirus IgG/IgM	27	27	100.00
B37 C. Diff Ag (GDH, Toxin A/B)	52	52	100.00
B39 Mycobacteria, microscopy	52	51	98.08
B42 HIV, Hepatitis B/C, Serologie	332	331	99.70
B43 Hepatitis A IgG / IgM	39	39	100.00
B44 Hepatitis E IgG / IgM	18	18	100.00
Total	2639	2600	98.52

B01 Strep A

	Target Value	negative	positive	% Conform
Rapid Test	positive	28	1187	97.70
Abbott	positive	0	3	100.00
Total		28	1190	97.70

Commentary B01

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

B04 Rubella

Rubella IgG	Target Value	Borderline/neg	positive	% Conform
all Participants	Borderline/neg	23	0	100.00

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

Mumps IgG	Target Value	Borderline/neg	positive	% Conform
all Participants	Borderline/neg	1	0	100.00

Mumps IgM	Target Value	negative	positive	% Conform
all Participants	negative	1	0	100.00

Commentary B04

The sample came from a person who had been vaccinated several times against Rubella, but did not build up antibodies (non-responder). The measured concentration of this sample is therefore 8.98 IU/ml (limit value according to WHO 10 IU/ml), for this reason we have accepted borderline and negative as the correct result.

B05 Toxoplasmosis

Toxoplasma IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	17	100.00

Toxoplasma IgM	Target Value	negative	positive	% Conform
all Participants	negative	17	0	100.00

B06 Syphilis

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

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

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

Lues RPR/VDRL	Target Value	negative	positive	% Conform
all Participants	negative	16	0	100.00

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

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

B07 Cytomegalie

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

Cytomegalovirus IgM	Target Value	negative	Borderline/p	% Conform
all Participants	Borderline/pos	2	17	100.00

B08 Varicella

Varicellen IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	30	100.00

Varicellen IgM	Target Value	negative	positive	% Conform
all Participants	not rateable	8	6	100.00

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

HSV2 IgG	Target Value	Borderline/neg	positive	% Conform
Other methods	Borderline/neg	4	0	100.00

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

Commentary B08

According to our supplier, the sample was positive for varicella IgM. We suspect that the concentration has decreased due to transportation and storage, which is why many participants measured "negative or borderline". We have therefore set the target value to "not assessable".

H11 Malaria rapid test / NAT

Plasmodium sp (Pan) alt	Target Value	negative	positive	% Conform
Paramax	negative	1	0	100.00

Malaria	Target Value	negative	positive	% Conform
Paramax	negative	21	0	100.00
BinaxNOW	negative	33	0	100.00
SD-Biosensor	negative	20	0	100.00
Illumipro-10	negative	1	0	100.00
Other methods	negative	11	0	100.00
Total		86	0	100.00

Plasmodium falciparum (Pf/T1) a1	Target Value	negative	positive	% Conform
Paramax	negative	1	0	100.00

Plasmodium Pv/Po/Pm	Target Value	negative	positive	% Conform
Paramax	negative	1	0	100.00

Commentary H11

The sample did not contain Plasmodium, the result was negative.

B20 Epstein-Bar-Virus

EBV heterophilic antibodies	Target Value	negative	positive	% Conform
Rapid Test	negative	53	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	1	10	90.91
Total		1	28	96.55

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	negative	positive	% Conform
Abbott	negative	6	0	100.00
Liaison	negative	6	0	100.00
VIDAS	negative	6	0	100.00
Other methods	negative	13	0	100.00
Total		31	0	100.00

B21 Legionella antigenurine

	Target Value	negative	positive	% Conform
Quidel Sofia	negative	20	0	100.00
BinaxNOW	negative	34	0	100.00
Other methods	negative	20	0	100.00
Total		74	0	100.00

B22 S. pneumoniae antigen urine

	Target Value	negative	positive	% Conform
Quidel Sofia	positive	0	18	100.00
BinaxNOW	positive	0	29	100.00
Other methods	positive	0	18	100.00
Total		0	65	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	positive	5	3	37.50

Commentary B24

The sample contained influenza antigen A and B, therefore all tests must be positive.

B27 Helicobacter Pylori Antigen

	Target Value	negative	positive	% Conform
Rapid Test	positive	1	30	96.77
Meridian STAT! HpSA	positive	0	6	100.00
Liaison	positive	0	15	100.00
CerTest Biotec	positive	0	7	100.00
Oxoid RAPID Hp StAR	positive	0	5	100.00
Total		1	63	98.44

B30 Rota-/Adeno-/Norovirus Ag

Rotavirus Ag	Target Value	negative	positive	% Conform
all Participants	negative	22	2	91.67

Adenovirus Ag	Target Value	negative	positive	% Conform
all Participants	negative	24	0	100.00

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

B32 SARS-CoV-2 Antibody

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

SARS-CoV-2 IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	4	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	11	100.00

SARS-CoV-2 IgG NCP	Target Value	negative	positive	% Conform
all Participants	positive	0	4	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	negative	48	0	100.00
Abbott Panbio	negative	7	0	100.00
Other methods	negative	29	0	100.00
Total		84	0	100.00

V01 HIV Schnelltest

	Target Value	negative	positive	% Conform
Determine HIV 1/2	positive	0	17	100.00
Other methods	positive	0	9	100.00
Total		0	26	100.00

B34 FSME IgG/IgM

FSME IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	4	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	8	0	100.00

Masern IgM	Target Value	negative	positive	% Conform
all Participants	negative	6	0	100.00

Parvovirus B19 IgG	Target Value	negative	Borderline/p	% Conform
all Participants	Borderline/pos	2	3	100.00

Parvovirus B19 IgM	Target Value	negative	positive	% Conform
all Participants	negative	8	0	100.00

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

C. Diff GDH	Target Value	negative	positive	% Conform
all Participants	negative	18	0	100.00
Techlab C.Diff Quick Chek	negative	6	0	100.00
Total		24	0	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	negative	3	0	100.00

C. Diff Tox A/B	Target Value	negative	positive	% Conform
Other methods	negative	12	0	100.00
Techlab C.Diff Quick Chek	negative	10	0	100.00
Total		22	0	100.00

B39 Mycobacteria, microscopy

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

Acid-fast bacilli B	Target Value	negative	positive	% Conform
Ziehl-Neelsen	negative	21	1	95.45
Auramin-Rhodamin	negative	4	0	100.00
Total		25	1	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	11	100.00
all Participants	positive	0	6	100.00
Total		0	27	100.00

HIV 1/2 ig sample A	Target Value	negative	positive	% Conform
Abbott	positive	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	11	0	100.00
Roche, Cobas	negative	7	0	100.00
Other methods	negative	4	0	100.00
Total		22	0	100.00

HBs Ag sample A	Target Value	negative	positive	% Conform
Abbott	negative	11	0	100.00
Roche, Cobas	negative	7	0	100.00
Other methods	negative	6	0	100.00
Total		24	0	100.00

HBc Ig sample A	Target Value	negative	positive	% Conform
Abbott	negative	11	0	100.00
Roche, Cobas	negative	8	0	100.00
Other methods	negative	5	0	100.00
Total		24	0	100.00

HBc IgM sample A	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	2	0	100.00
Other methods	negative	2	0	100.00
Total		13	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	1	0	100.00
Total		12	0	100.00

HBe Ag sample A	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	3	0	100.00
Other methods	negative	2	0	100.00
Total		14	0	100.00

HCV Ig sample A	Target Value	negative	positive	% Conform
Abbott	negative	11	0	100.00
Roche, Cobas	negative	7	0	100.00
Other methods	negative	7	0	100.00
Total		25	0	100.00

HIV 1/2 Combo sample B	Target Value	negative	positive	% Conform
Abbott	negative	10	0	100.00
Roche, Cobas	negative	11	0	100.00
all Participants	negative	7	0	100.00
Total		28	0	100.00

HIV 1/2 ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	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	positive	0	11	100.00
Roche, Cobas	positive	0	8	100.00
Other methods	positive	0	4	100.00
Total		0	23	100.00

HBs Ag sample B	Target Value	negative	positive	% Conform
Abbott	negative	11	0	100.00
Roche, Cobas	negative	7	0	100.00
Other methods	negative	5	1	83.33
Total		23	1	95.83

HBc Ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	11	0	100.00
Roche, Cobas	negative	8	0	100.00
Other methods	negative	5	0	100.00
Total		24	0	100.00

HBc IgM sample B	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	4	0	100.00
Other methods	negative	2	0	100.00
Total		15	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	1	0	100.00
Total		12	0	100.00

HBe Ag sample B	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	3	0	100.00
Other methods	negative	2	0	100.00
Total		14	0	100.00

HCV Ig sample B	Target Value	negative	positive	% Conform
Abbott	negative	11	0	100.00
Roche, Cobas	negative	8	0	100.00
Other methods	negative	6	0	100.00
Total		25	0	100.00

B43 Hepatitis A IgG / IgM

HAV Ig	Target Value	negative	positive	% Conform
Roche, Cobas	positive	0	5	100.00
Other methods	positive	0	5	100.00
Total		0	10	100.00

HAV IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	1	100.00
Abbott	positive	0	9	100.00
Total		0	10	100.00

HAV IgM	Target Value	negative	positive	% Conform
Abbott	negative	9	0	100.00
Roche, Cobas	negative	4	0	100.00
Other methods	negative	6	0	100.00
Total		19	0	100.00

B44 Hepatitis E IgG / IgM

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

HEV IgM	Target Value	negative	positive	% Conform
all Participants	positive	0	9	100.00
