

Report MQ 2026/2 Microbiology: Antibody and antigen tests

22.06.2026 V1.0

Summary

Sample		Results	Good	% Good
B01	Strep A Antigen	1281	1258	98.20 %
B04	Rubella / Mumps IgG/IgM	84	82	97.62 %
B05	Toxoplasmosis IgG/IgM	46	46	100.00 %
B06	Lues / syphilis serology	95	95	100.00 %
B07	Cytomegalovirus IgG/IgM	73	73	100.00 %
B08	Varicella / HSV1/2 IgG/IgM	117	116	99.15 %
B20	Epstein-Barr-Virus IgG/IgM	172	168	97.67 %
B21	Legionella antigen urine	75	75	100.00 %
B22	S. pneumoniae antigen urine	62	62	100.00 %
B24	RSV/Influenza rapid test	38	36	94.74 %
B27	Helicobacter Pylori Antigen	64	63	98.44 %
B30	Rota-/Adeno-/Norovirus Ag	80	80	100.00 %
B32	SARS-CoV-2 IgG/IgM	8	8	100.00 %
B33	SARS-CoV-2 Ag	27	27	100.00 %
B34	FSME IgG/IgM	12	12	100.00 %
B35	Measles/Parvovirus IgG/IgM	52	52	100.00 %
B37	C. Diff Ag (GDH, Toxin A/B)	86	83	96.51 %
B38	H. pylori Urease-Test	5	5	100.00 %
B39	Mycobacteria, microscopy	48	48	100.00 %
B42	HIV, Hepatitis B/C, serology	651	647	99.39 %
B43	Hepatitis A IgG / IgM	64	64	100.00 %
B44	Hepatitis E IgG / IgM	22	22	100.00 %
B45	Borrelia serology	14	14	100.00 %
H11	Malaria rapid test / NAT	108	106	98.15 %
V01	HIV Rapid Test	27	27	100.00 %
Total		3311	3269	98.73 %

B01 Strep A Antigen

Strep A	Target Value	negative	border	positive	% Conform
Rapid Test	negative	1257	2	21	98.20
Abbott	negative	1	0	0	100.00
Total		1258	2	21	98.20

B04 Rubella / Mumps IgG/IgM

Mumps IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	12	100.00

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

Rubella IgG	Target Value	negative	positive	% Conform
all Participants	positive	0	36	100.00

Rubella IgM	Target Value	negative	positive	% Conform
all Participants	positive	2	26	92.86

B05 Toxoplasmosis IgG/IgM

Toxoplasma IgG	Target Value	negative	positive	% Conform
Abbott	negative	4	0	100.00
Roche	negative	11	0	100.00
Other methods	negative	9	0	100.00
Total		24	0	100.00

Toxoplasma IgM	Target Value	negative	positive	% Conform
Abbott	negative	4	0	100.00
Roche	negative	11	0	100.00
Other methods	negative	7	0	100.00
Total		22	0	100.00

B06 Lues / syphilis serology

Treponema TPHA	Target Value	negative	positive	% Conform
all Participants	positive	0	10	100.00

Treponema Screening (Ig total)	Target Value	negative	positive	% Conform
all Participants	positive	0	27	100.00

Treponema IgG	Target Value	negative	positive	% Conform
Immunoblot	positive	0	2	100.00
EIA	positive	0	10	100.00
Total		0	12	100.00

Treponema IgM	Target Value	negative	positive	% Conform
EIA	negative	6	0	100.00
Immunoblot	negative	4	0	100.00
Total		10	0	100.00

RPR/VDRL	Target Value	negative	positive	% Conform
all Participants	negative	21	0	100.00

Syphilis TPPA	Target Value	negative	positive	% Conform
all Participants	positive	0	15	100.00

Commentary

The following serological results, IgG pos, IgM neg, TPPA/TPHA pos, RPR/VDRL neg, reflect a former syphilis.

B07 Cytomegalovirus IgG/IgM

CMV IgG avidity interpretation	Target Value	negative	border	positive	% Conform
all Participants	positive	0	0	1	100.00

Cytomegaly IgG	Target Value	negative	border	positive	% Conform
Abbott	positive	0	0	6	100.00
Roche	positive	0	0	17	100.00
Other methods	positive	0	0	15	100.00
Total		0	0	38	100.00

Cytomegaly IgM	Target Value	negative	border	positive	% Conform
Abbott	Borderline/pos	0	1	4	100.00
Roche	negative	16	0	0	100.00
Other methods	positive	0	0	13	100.00
Total		16	1	17	52.94

Commentary

Although a sample positive for CMV IgG and IgM was used, not all methods were able to detect IgM as positive. As the participants agreed within the method group, different target values were determined.

B08 Varicella / HSV1/2 IgG/IgM

HSV 1/2 IgG	Target Value	negative	border	positive	% Conform
all Participants	negative	4	0	0	100.00

HSV1 IgG	Target Value	negative	border	positive	% Conform
all Participants	negative	18	0	0	100.00

HSV1/2 IgM	Target Value	negative	border	positive	% Conform
all Participants	negative	20	0	0	100.00

HSV2 IgG	Target Value	negative	border	positive	% Conform
all Participants	negative	17	1	0	94.44

Varicella IgG	Target Value	negative	border	positive	% Conform
all Participants	positive	0	0	35	100.00

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

B20 Epstein-Barr-Virus IgG/IgM

EBV EBNA-1 IgG	Target Value	negative	border	positive	% Conform
Roche	positive	0	0	8	100.00
Abbott	positive	0	0	3	100.00
VIDAS	positive	0	0	5	100.00
Liaison	positive	0	0	10	100.00
Other methods	positive	0	0	7	100.00
Total		0	0	33	100.00

EBV heterophilic antibodies	Target Value	negative	border	positive	% Conform
Rapid Test	negative	72	0	0	100.00

EBV VCA-IgG	Target Value	negative	border	positive	% Conform
Roche	positive	0	0	9	100.00
Abbott	positive	0	0	3	100.00
VIDAS	positive	0	0	5	100.00
Liaison	positive	1	0	9	90.00
Other methods	positive	0	0	7	100.00
Total		1	0	33	97.06

EBV VCA-IgM	Target Value	negative	border	positive	% Conform
Roche	negative	8	0	0	100.00
Abbott	negative	2	1	0	66.67
VIDAS	negative	5	0	0	100.00
Liaison	negative	8	1	1	80.00
Other methods	negative	7	0	0	100.00
Total		30	2	1	90.91

Commentary

The sample came from an employee who had contracted an EBV infection more than 10 years ago.

B21 Legionella antigen urine

Legionella antigen urine	Target Value	negative	positive	% Conform
Quidel Sofia	negative	18	0	100.00
BinaxNOW	negative	34	0	100.00
Other methods	negative	23	0	100.00
Total		75	0	100.00

B22 S. pneumoniae antigen urine

S. pneumoniae antigen urine	Target Value	negative	positive	% Conform
BinaxNOW	positive	0	25	100.00
Quidel Sofia	positive	0	15	100.00
Other methods	positive	0	22	100.00
Total		0	62	100.00

B24 RSV/Influenza rapid test

Influenza A Antigen	Target Value	negative	positive	% Conform
all Participants	negative	4	0	100.00

Influenza B Antigen	Target Value	negative	positive	% Conform
all Participants	negative	4	0	100.00

Influenza Ag	Target Value	negative	positive	% Conform
Quidel Sofia	negative	1	0	100.00
Other methods	negative	9	0	100.00
Total		10	0	100.00

RSV Antigen	Target Value	negative	positive	% Conform
BinaxNOW	positive	1	2	66.67
Other methods	positive	1	16	94.12
Total		2	18	90.00

B27 Helicobacter Pylori Antigen

Helicobacter pylori antigen	Target Value	negative	positive	% Conform
CerTest Biotec	negative	12	0	100.00
Liaison	negative	14	0	100.00
Meridian STAT! HpSA	negative	3	0	100.00
Oxoid RAPID Hp StAR	negative	3	1	75.00
Ridascreen	negative	7	0	100.00
SD-Biosensor	negative	7	0	100.00
Rapid Test	negative	17	0	100.00
Total		63	1	98.44

B30 Rota-/Adeno-/Norovirus Ag

Adenovirus Ag	Target Value	negative	positive	% Conform
CerTest Biotec	negative	8	0	100.00
r-biopharm	negative	5	0	100.00
SD-Biosensor	negative	6	0	100.00
Other methods	negative	17	0	100.00
Total		36	0	100.00

Norovirus Ag	Target Value	negative	positive	% Conform
all Participants	positive	0	10	100.00

Rotavirus Ag	Target Value	negative	positive	% Conform
CerTest Biotec	negative	9	0	100.00
r-biopharm	negative	5	0	100.00
SD-Biosensor	negative	6	0	100.00
Other methods	negative	14	0	100.00
Total		34	0	100.00

B32 SARS-CoV-2 IgG/IgM

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

SARS-CoV-2 IgG NCP	Target Value	negative	positive	% Conform
Roche	positive	0	1	100.00
all Participants	positive	0	1	100.00
Total		0	2	100.00

SARS-CoV-2 IgG Spike 1	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	1	100.00

B33 SARS-CoV-2 Ag

SARS-CoV-2 Antigen	Target Value	negative	positive	% Conform
Roche	negative	7	0	100.00
Other methods	negative	20	0	100.00
Total		27	0	100.00

B34 FSME IgG/IgM

FSME IgG	Target Value	negative	border	positive	% Conform
all Participants	Borderline/pos	0	3	3	100.00

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

B35 Measles/Parvovirus IgG/IgM

Masern IgG	Target Value	negative	border	positive	% Conform
Vidas	negative	4	0	0	100.00
all Participants	Borderline/pos	0	1	10	100.00
Total		4	1	10	26.67

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

Parvovirus B19 IgG	Target Value	negative	border	positive	% Conform
all Participants	positive	0	0	14	100.00

Parvovirus B19 IgM	Target Value	negative	border	positive	% Conform
all Participants	negative	13	0	0	100.00

Commentary

Measles: the sample came from a vaccinated donor. Not all methods were able to detect the presence of IgG. As the participants in the methods group were in agreement, different cut-off values were determined.

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

C. Diff GDH	Target Value	negative	positive	% Conform
Ridascreen	positive	0	8	100.00
Techlab C.Diff Quick Chek	positive	1	13	92.86
Other methods	positive	0	18	100.00
Total		1	39	97.50

C. Diff Toxin A	Target Value	negative	positive	% Conform
all Participants	negative	8	0	100.00

C. Diff Toxin B	Target Value	negative	positive	% Conform
all Participants	negative	8	0	100.00

C. Diff Tox A/B	Target Value	negative	positive	% Conform
Ridascreen	negative	8	0	100.00
Techlab C.Diff Quick Chek	negative	12	1	92.31
Other methods	negative	8	1	88.89
Total		28	2	93.33

B38 H. pylori Urease-Test

H. pylori Urease-Test	Target Value	negative	positive	% Conform
Rapid Test	positive	0	5	100.00

B39 Mycobacteria, microscopy

Acid-fast bacilli A	Target Value	negative	positive	% Conform
Ziehl-Neelsen	positive	0	20	100.00
Auramin-Rhodamin	positive	0	4	100.00
Total		0	24	100.00

Acid-fast bacilli B	Target Value	negative	positive	% Conform
Auramin-Rhodamin	positive	0	4	100.00
Ziehl-Neelsen	positive	0	20	100.00
Total		0	24	100.00

B42 HIV, Hepatitis B/C, serology

HBs Ag sample A	Target Value	negative	border	positive	% Conform
Abbott	negative	11	0	1	91.67
Roche	negative	31	0	0	100.00
Other methods	negative	14	0	0	100.00
Total		56	0	1	98.25

Anti-HBs Ig total sample A	Target Value	negative	border	positive	% Conform
Abbott	negative	8	0	0	100.00
Roche	negative	27	0	0	100.00
Other methods	negative	8	0	0	100.00
Total		43	0	0	100.00

Anti-HBc Ig total sample A	Target Value	negative	border	positive	% Conform
Abbott	negative	8	0	0	100.00
Roche	negative	31	0	0	100.00
Other methods	negative	8	0	0	100.00
Total		47	0	0	100.00

Anti-HBc IgM sample A	Target Value	negative	border	positive	% Conform
Abbott	negative	7	0	0	100.00
Roche	negative	9	0	0	100.00
Other methods	negative	3	0	0	100.00
Total		19	0	0	100.00

HBe Ag sample A	Target Value	negative	border	positive	% Conform
Abbott	negative	8	0	0	100.00
Roche	negative	7	0	0	100.00
Other methods	negative	4	0	0	100.00
Total		19	0	0	100.00

Anti-HBe Ig total sample A	Target Value	negative	border	positive	% Conform
Abbott	negative	7	0	0	100.00
Roche	negative	7	0	0	100.00
Other methods	negative	4	0	0	100.00
Total		18	0	0	100.00

Anti-HCV Ig total sample A	Target Value	negative	border	positive	% Conform
Abbott	negative	11	0	0	100.00
Roche	negative	29	0	0	100.00
Other methods	negative	16	1	0	94.12
Total		56	1	0	98.25

HIV 1/2 Combo sample A	Target Value	negative	border	positive	% Conform
Abbott	positive	0	0	11	100.00
Roche	positive	0	0	37	100.00
Other methods	positive	0	0	15	100.00
Total		0	0	63	100.00

HBs Ag sample B	Target Value	negative	border	positive	% Conform
Abbott	negative	12	0	0	100.00
Roche	negative	31	0	0	100.00
Other methods	negative	14	0	0	100.00
Total		57	0	0	100.00

Anti-HBs Ig total sample B	Target Value	negative	border	positive	% Conform
Abbott	positive	0	0	8	100.00
Roche	positive	0	0	28	100.00
Other methods	positive	0	0	9	100.00
Total		0	0	45	100.00

Anti-HBc Ig total sample B	Target Value	negative	border	positive	% Conform
Abbott	positive	0	0	8	100.00
Roche	positive	0	0	31	100.00
Other methods	positive	0	0	8	100.00
Total		0	0	47	100.00

Anti-HBc IgM sample B	Target Value	negative	border	positive	% Conform
Abbott	negative	7	0	0	100.00
Roche	negative	10	0	0	100.00
Other methods	negative	3	0	0	100.00
Total		20	0	0	100.00

HBe Ag sample B	Target Value	negative	border	positive	% Conform
Abbott	negative	8	0	0	100.00
Roche	negative	7	0	0	100.00
Other methods	negative	4	0	0	100.00
Total		19	0	0	100.00

Anti-HBe Ig total sample B	Target Value	negative	border	positive	% Conform
Abbott	positive	0	0	7	100.00
Roche	positive	0	0	7	100.00
Other methods	positive	0	0	4	100.00
Total		0	0	18	100.00

Anti-HCV Ig total sample B	Target Value	negative	border	positive	% Conform
Abbott	positive	0	1	10	90.91
Roche	positive	0	0	29	100.00
Other methods	positive	0	0	17	100.00
Total		0	1	56	98.25

HIV 1/2 Combo sample B	Target Value	negative	border	positive	% Conform
Abbott	negative	11	0	0	100.00
Roche	negative	37	0	0	100.00
Other methods	negative	16	0	1	94.12
Total		64	0	1	98.46

B43 Hepatitis A IgG / IgM

Anti-HAV Ig	Target Value	negative	positive	% Conform
Roche	positive	0	18	100.00
Other methods	positive	0	7	100.00
Total		0	25	100.00

Anti-HAV IgG	Target Value	negative	positive	% Conform
Abbott	positive	0	6	100.00
all Participants	positive	0	2	100.00
Total		0	8	100.00

Anti-HAV IgM	Target Value	negative	positive	% Conform
Abbott	negative	6	0	100.00
Roche	negative	16	0	100.00
Other methods	negative	9	0	100.00
Total		31	0	100.00

B44 Hepatitis E IgG / IgM

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

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

B45 Borrelia serology

Borrelia burgdorferi IgG Screening	Target Value	negative	positive	% Conform
all Participants	positive	0	6	100.00

Borrelia burgdorferi IgM Screening	Target Value	negative	positive	% Conform
all Participants	positive	0	6	100.00

Borrelia burgdorferi IgG Blot	Target Value	negative	positive	% Conform
all Participants	positive	0	1	100.00

Borrelia burgdorferi IgM Blot	Target Value	negative	positive	% Conform
all Participants	positive	0	1	100.00

H11 Malaria rapid test / NAT

Malaria	Target Value	negative	border	positive	% Conform
Paramax	negative	8	0	0	100.00
BinaxNOW	negative	47	0	0	100.00
SD-Biosensor	negative	33	1	0	97.06
NAT Amp.	negative	8	0	1	88.89
Other methods	negative	6	0	0	100.00
Total		102	1	1	98.08

Plasmodium spp.	Target Value	negative	border	positive	% Conform
Biofire/Filmarray	negative	2	0	0	100.00

Plasmodium falciparum	Target Value	negative	border	positive	% Conform
Biofire/Filmarray	negative	2	0	0	100.00

Commentary

The sample did not contain any plasmodia, the result was negative.

V01 HIV Rapid Test

HIV Rapid Test	Target Value	negative	positive	% Conform
Determine HIV 1/2	positive	0	24	100.00
Other methods	positive	0	3	100.00
Total		0	27	100.00