

**LEISTUNGSKATALOG Serologie**

**Untersuchungsgebiet: Virologie**

**Untersuchungsart:**

**Ligandenassays \***

Analyse/Analyt	Methode(n)	Material	Dauer	Hintergrundinformation
Cytomegalievirus Antikörper (IgG, IgM)	CLIA	Serum (1ml)	1d	
Epstein-Barr-Virus Antikörper (EBNA-IgG, VCA IgG, IgM)	CLIA	Serum (1ml)	1d	
FSME-Virus-AK (IgG, IgM)	EIA	Serum (1ml)	3d	
FSME-Virus-AK (IgG) Serum/Liquor Index	EIA	Liquor (1ml), Serum (1ml)	3d	
Hepatitis-A-Virus Antikörper (IgG)	CMIA	Serum (1ml)	1d	
Hepatitis-A-Virus Antikörper (IgM)	CMIA	Serum (1ml)	1d	
Hepatitis-B-Virus HBcAg Antikörper (IgG)	CLIA	Serum (1ml)	1d	
Hepatitis-B-Virus HBcAg Antikörper (IgG, IgM)	CMIA	Serum (1ml)	1d	
Hepatitis-B-Virus HBcAg Antikörper (IgM)	CMIA	Serum (1ml)	1d	
Hepatitis-B-Virus HBeAg Antikörper (IgG) qualitativ	CMIA	Serum (1ml)	1d	
Hepatitis-B-Virus HBsAg Antikörper quantitativ	CMIA	Serum (1ml)	1d	
Hepatitis-B-Virus HBeAg qualitativ	CMIA	Serum (1ml)	1d	
Hepatitis-B-Virus HBsAg qualitativ	CMIA	Serum (1ml)	1d	
Hepatitis-B-Virus HBsAg qualitativ Bestätigung	CMIA	Serum (1ml)	1d	
Hepatitis-B-Virus HBsAg quantitativ	CMIA	Serum (1ml)	1d	
Hepatitis-C-Virus Antikörper (IgA, IgG, IgM)	CMIA	Serum (1ml)	1d	
Hepatitis-C-Virus Antikörper (IgG)	Immunoblot	Serum (1ml)	2-3d	
Hepatitis-D-Virus Antikörper (IgG, IgM)	CLIA	Serum (1ml)	1d	
Hepatitis-E-Virus Antikörper (IgG)	CLIA	Serum (1ml)	1d	
Hepatitis-E-Virus Antikörper (IgM)	CLIA	Serum (1ml)	1d	
Herpes-simplex-virus-1/2 Antikörper (IgG)	CLIA	Serum (1ml)	1d	
Herpes-simplex-virus-1/2 Antikörper (IgG) Serum /Liquor Index	EIA	Liquor (1ml), Serum (1ml)	3d	
Humanes Immundefizienz-Virus 1/2 Antikörper (IgG)	Immunoblot	Serum (1ml)	2-3d	
Humanes Immundefizienz-Virus 1/2 Ag/Ab und p24	CLIA	Serum (1ml)	1d	
Humanes T-lymphotropes Virus 1/2 Antikörper	CLIA	Serum (1ml)	1d	
Masernvirus-AK (IgG)	CLIA	Serum (1ml)	1d	
Masernvirus-AK (IgM)	CLIA	Serum (1ml)	1d	
Masernvirus-AK (IgG) Serum/Liquor Index	EIA	Liquor (1ml), Serum (1ml)	3d	
Mumpsvirus-AK (IgG)	CLIA	Serum (1ml)	1d	
Mumpsvirus-AK (IgM)	CLIA	Serum (1ml)	1d	
Parvovirus B19 AK (IgG)	CLIA	Serum (1ml)	1d	
Parvovirus B19 AK (IgM)	CLIA	Serum (1ml)	1d	
Rötelnvirus-AK (IgG)	CLIA	Serum (1ml)	1d	
Rötelnvirus-AK (IgM)	CLIA	Serum (1ml)	1d	
Rötelnvirus-AK (IgG) Serum /Liquor Index	EIA	Liquor (1ml), Serum (1ml)	3d	
SARS-CoV-2 AK (Nucleocapsid)	CLIA	Serum (1ml)	1d	
SARS-CoV-2 AK (Spike) quantitative	CLIA	Serum (1ml)	1d	
SARS-CoV2 Antikörper trimeric (IgG) quantitative	CLIA	Serum (1ml)	1d	
Varicella-Zoster-Virus (IgG)	CLIA	Serum (1ml)	1d	
Varicella-Zoster-Virus (IgM)	CLIA	Serum (1ml)	1d	
Varicella-Zoster-Virus Antikörper (IgG) Serum/Liquor Index	EIA	Liquor (1ml), Serum (1ml)	3d	

**Untersuchungsgebiet: Mikrobiologie**

**Untersuchungsart:**

**Ligandenassays \***

Analyse/Analyt	Methode(n)	Material	Dauer	Hintergrundinformation
Aspergillus Antigen	EIA	Serum (1ml), BAL (1ml)	3d	

Beta D Glucan	Enzymkinetischer Assay	Serum (1ml)	1-2d	
Bordetella pertussis Toxin Antikörper	CLIA	Serum (1ml)	1d	
Borrelia burgdorferi Antikörper (IgG, IgM)	CLIA	Serum (1ml)	1d	
Borrelia burgdorferi Serum /Liquor Index	CLIA	Liquor (1ml), Serum (1ml)	1d	
Brucella Antikörper (IgA, IgG, IgM)	EIA	Serum (1ml)	3d	
Campylobacter Antikörper (IgA, IgG)	EIA	Serum (1ml)	3d	
Chlamydia trachomatis Antikörper (IgA, IgG)	CLIA	Serum (1ml)	1d	
Chlamydia trachomatis/ pneumoniae/ psittaci Antikörper (IgA, IgG)	Immunoblot	Serum (1ml)	3d	
Clostridoides difficile Toxin A und B	CLIA	Stuhl (1ml)	1d	
Clostridoides difficile Toxin A und B GDH	CLIA	Stuhl (1ml)	1d	
Clostridium tetani Toxin Antikörper (IgG)	EIA	Serum (1ml)	3d	Impftiter
Coxiella burnetii Antikörper (IgG, IgM)	EIA	Serum (1ml)	3d	Test erfasst IgG AK gegen Antigene der Phase I sowie IgG und IgM AK gegen Antigene der Phase II
Cryptococcus neoformans Antigen	CFT	Liquor (1ml), Serum (1ml)	1d	
Diphtherie-Toxin Antikörper (IgG)	EIA	Serum (1ml)	3d	Impftiter
Ecchinococcus Antikörper	EIA	Serum (1ml)	3-5d	
Helicobacter pylori Antigen	EIA	Stuhl (1ml)	3d	
Interferon-Gamma Release Assay (Quantiferon TB Gold )	CLIA	Spezialröhrchen, Heparinblut (5ml)	2d	Spezialröhrchen (4er Kombi)
Legionella pneumophila Antigen	LFA	Urin (1ml)	1d	Schnelltest
Leptospira Antikörper (IgG, IgM)	EIA	Serum (1ml)	3d	
Mycoplasma pneumoniae Antikörper (IgG, IgM)	CLIA	Serum (1ml)	1d	
Toxoplasma gondii Antikörper (IgG)	CMIA	Serum (1ml)	1d	
Toxoplasma gondii Antikörper (IgM)	CMIA	Serum (1ml)	1d	
Toxoplasma gondii-AK (IgG) Serum/Liquor Index	EIA	Liquor (1ml), Serum (1ml)	3d	
Treponema pallidum Antikörper (IgG-AK, IgM)	CMIA	Serum (1ml)	1d	
Treponema pallidum Antikörper (TPHA)	Agglutination	Liquor (1ml), Serum (1ml)	1-3d	
Treponema pallidum (VDRL)	Agglutination	Serum (1ml)	1-3d	
Yersinia enterocolitica Antikörper (IgA, IgG)	Immunoblot	Serum (1ml)	1-5d	Yersiniose, reA erfasst AK gegen Y. enterocolitica und Y. pseudotuberculosis

## LEISTUNGSKATALOG PCR

### Untersuchungsgebiet: Virologie

#### Untersuchungsart:

#### Empfindlichkeitstestungen von Viren \*

Analyse/Analyt	Methode(n)	Material	Dauer	Hintergrundinformation
Cytomegalievirus Resistenz	PCR + NGS	EDTA-Blut (3ml)	14d	
Hepatitis-B-Virus Resistenz und Genotyp	PCR + NGS	EDTA-Blut (3ml)	14d	
Hepatitis-C-Virus Resistenz und Genotyp	PCR + NGS	EDTA-Blut (3ml)	14d	
Humanes Immundefizienz-Virus 1 Resistenz (Polymerase)	PCR + NGS	EDTA-Blut (3ml)	3-10d	
Humanes Immundefizienz-Virus 1 Resistenz (Integrase)	PCR + NGS	EDTA-Blut (3ml)	3-10d	
Humanes Immundefizienz-Virus 1 Resistenz (Tropismus)	PCR + NGS	EDTA-Blut (3ml)	3-10d	

#### Untersuchungsart:

#### Molekularbiologische Untersuchungen (Amplifikationsverfahren) \*\*

Analyse/Analyt	Methode(n)	Material	Dauer	Hintergrundinformation
<b>Diarrhoe Viren qPCR Panel (klein)</b> [Noro Genogruppe I/II RNA, Rotavirus RNA, Adenovirus DNA]	Real Time PCR	Stuhl (1ml)	1d	
<b>Diarrhoe Viren qPCR Panel (groß)</b> [Noro Genogruppe I/II RNA, Rotavirus RNA, Adenovirus DNA, Astrovirus RNA, Sapovirus RNA, Enterovirus RNA]	Real Time PCR	Stuhl (1ml)	1d	

Herpes Panel quantitativ [HSV1, HSV2, VZV]	Real Time PCR	Abstrich (1ml), BAL/ TS/ Sputum (1ml), EDTA-Blut (3ml)	1d	
Menigitis Viren qPCR Panel [HSV1 DNA, HSV2 DNA, VZV DNA, CMV DNA, HHV6 DNA, Enterovirus RNA, Parechovirus RNA]	Real Time PCR	Liquor (1ml)	1d	
Respiratorisches Viren qPCR Panel (groß) [SARS-CoV2-RNA, Influenza A, RNA Influenza B RNA, RSV RNA, hMPV RNA, Rhino/Entero RNA, Parainfluenza 1-4 RNA, hCOV RNA (229E, NL63, HKU1, OC43), Boca DNA, ADV DNA]	Real Time PCR	Abstrich (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser (1ml)	1d	
Respiratorisches Viren qPCR Panel (klein) [SARS CoV2 RNA, Influenza A, RNA Influenza B RNA, RSV RNA]	Real Time PCR	Abstrich (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser (1ml)	1d	
Adenovirus DNA quantitativ	Real Time PCR	Abstrich (1ml), Gewebe/ Biopsie (1g), EDTA-Blut (3ml), Liquor (1ml), Urin (1ml)	1d	
BK-Virus DNA quantitativ	Real Time PCR	EDTA-Blut (3ml), Urin (1ml), Liquor (1ml)	1d	
CMV DNA quantitativ	Real Time PCR	EDTA-Blut (3ml), Liquor (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser	1d	Humanes Herpes Virus 5 (HHV5)
Enterovirus/Parechovirus RNA	Real Time PCR	EDTA-Blut (3ml), Liquor (1ml), Abstrich (1ml), Gewebe/ Biopsie (1g), Stuhl (1ml)	1d	Gruppe A - D
Epstein Barr Virus DNA quantitativ	Real Time PCR	EDTA-Blut (3ml), Liquor (1ml), Abstrich (1ml), Gewebe/ Biopsie (1g), BAL/ TS/ Sputum (1ml)	1d	Humanes Herpes Virus 4 (HHV4)
Hepatitis-A-Virus RNA qualitativ	Real Time PCR	Stuhl (1ml), EDTA-Blut (3ml)	1d	
Hepatitis B Virus DNA quantitativ	Real Time PCR	EDTA-Blut (3ml)	1d	
Hepatitis C Virus RNA quantitativ	Real Time PCR	EDTA-Blut (3ml)	1d	
Hepatitis D Virus RNA quantitativ	Real Time PCR	EDTA-Blut (3ml)	1d	
Hepatitis E Virus RNA quantitativ	Real Time PCR	Stuhl (1ml), EDTA-Blut (3ml)	1d	
Herpes simplex-Virus 1/2 DNA quantitativ	Real Time PCR,	Gewebe/ Biopsie, Liquor (1ml), Stuhl (1ml)	1d	(HSV1/HSV2)
Humanes Immundefizienz-Virus 1 RNA quantitativ	Real Time PCR	EDTA-Blut (3ml), Liquor (1ml)	1d	Humanes Immundefizienz Virus Typ 1
Humanes Immundefizienz-Virus 2 RNA quantitativ	Real Time PCR	EDTA-Blut (2 ml), Liquor (1ml)	1-2d	
Humanes Herpesvirus 6 DNA quantitativ	Real Time PCR	EDTA-Blut (3ml), Liquor (1ml), BAL/ TS/ Sputum (1ml)	1d	Humanes Herpes Virus 6, Typ A und B
Humanes Herpesvirus 8 DNA quantitativ	Real Time PCR	EDTA-Blut (3ml), Liquor (1ml), BAL/ TS/ Sputum (1ml)	1d	Humanes Herpes Virus 8
Humanes Papillomavirus DNA, Genotyp	Real Time PCR	Abstrich (1ml)	3-7d	Humanes Papillomavirus
Influenzavirus A Typing	Real Time PCR	Abstrich (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser (1ml)	1d	H1N1, H3N2, H5
JC-Virus DNA quantitativ	Real Time PCR	EDTA-Blut (3ml), Liquor (1ml), Urin (1ml)	1d	
Masernvirus RNA	Real Time PCR	EDTA-Blut (3ml), Liquor (1ml), Abstrich (1ml)	1d	
Mpoxvirus DNA	Real Time PCR	Abstrich (1ml), EDTA-Blut (3ml)	1d	Inkl. Bestimmung Clade 2
Mumpsvirus RNA	Real Time PCR	EDTA-Blut (3ml), Liquor (1ml), Abstrich (1ml)	1d	
Parvovirus B19 DNA	Real Time PCR	EDTA-Blut (3ml), Liquor (1ml), Gewebe/ Biopsie (1g)	1d	
Rötelnvirus RNA	Real Time PCR	EDTA-Blut (3ml), Liquor (1ml), Abstrich (1ml)	1d	
SARS-CoV-2 DNA	Real Time PCR	Abstrich (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser (1ml), EDTA-	1d	
SARS CoV2 VOC Typisierung	Real Time PCR	Abstrich (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser (1ml), EDTA-Blut (3ml)	1d	
Varicella Zoster Virus DNA quantitativ	Real Time PCR	Liquor (1ml)/ Gewebe/ Biopsie (1g)	1d	Humanes Herpes Virus 3 (HHV3)
West Nile Virus RNA	Real Time PCR	EDTA-Blut (3ml), Liquor (1ml)	1d	

Untersuchungsgebiet: Mikrobiologie  
Untersuchungsart: Molekularbiologische  
Untersuchungen  
(Amplifikationsverfahren) \*\*

Analyse/Analyt	Methode(n)	Material	Dauer	Hintergrundinformation
<b>Atypisches Pneumonie Panel</b> [Chlamydia pneumoniae DNA, Legionella spezie DNA, Legionella pneumoniae DNA, Mykoplasma pneumoniae DNA, Pneumocystis jirovecii DNA, Chlamydomydia psittaci DNA]	Real Time PCR	Abstrich (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser (1ml)	1d	Wenn positiv Differenzierung zwischen L. spez und L. pneumophila
<b>Blutstrominfektion Bakterien qPCR Panel</b> [gram-pos./neg. Bakterien, Hefen, Resistenzgene]	Real Time PCR	EDTA-Blutkultur (1ml)		
<b>Chlamydia trachomatis (LGV/non-LGV) DNA und Neisseria gonorrhoeae DNA Panel</b>	Real Time PCR	Abstrich (1ml), Urin (1ml)	1d	inkl. Differenzierung in LGV und non LGV Stämme
<b>Diarrhoe Bakterien PCR Panel</b> [Campylobacter jejuni/coli DNA, Cryptosporidium ssp. DNA, Entamoeba histolytica DNA, Escherichia coli (EAEC/ EIEC/ STEC) DNA, Giardia lamblia DNA, Salmonella ssp. DNA, Yersinia enterocolitica DNA, Yersinia pseudotuberculosis DNA]	Real Time PCR	Stuhl (1ml)	1d	
<b>Joint Infection Panel</b> (gram-pos./ gram-neg. Bakterien, Candida, Resistenzgene)	Real Time PCR	Gelenkflüssigkeit (1ml)	1d	
<b>Menigitis Bakterien qPCR Panel</b> [Escherichia coli K1, Haemophilus influenzae, Listeria monocytogenes, Neisseria meningitidis (verkapselt), Streptococcus agalactiae, Streptococcus pneumoniae, Cryptococcus neoformans/gattii]	Real Time PCR	Liquor (1ml)	1d	
<b>Menigitis Bakterien qPCR Panel</b> [Haemophilus influenzae, Listeria monocytogenes, Neisseria meningitidis (verkapselt), Streptococcus agalactiae, Streptococcus pneumoniae, Cryptococcus neoformans/gattii]	Real Time PCR	Liquor (1ml)	1d	
<b>Multiresistente gramnegative Bakterien</b> (MRGN) [KPC, MBL (NDM, VIM), CRAB (Oxa23, Oxa24/40), Oxa48]	Real Time PCR, Kultur	Abstrich (1ml)	1-3 d	Besiedlungsstatus MRGN
16S/18S RNA-Gen (Bakterien/ Candida)	Real Time PCR, Sanger-Sequenzierung	Liquor (1ml), Gewebe/ Biopsie (1g)	1w	bei positiver PCR erfolgt Erregeridentifizierung durch Sequenzierung
Aspergillus spp. DNA	Real Time PCR	BAL/ TS/ Sputum (1ml), Gewebe/ Biopsie (1g)	1d	
Bordetella pertussis/ parapertussis DNA	Real Time PCR	Abstrich (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser (1ml)	1d	
Bordetella pertussis Toxin-Gen	Real Time PCR	Abstrich (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser (1ml)	1d	
Borrelia burgdorferi DNA	Real Time PCR	Liquor (1ml), Gewebe/ Biopsie, EDTA-Blut	1d	
Brucella spp. DNA	Real Time PCR	EDTA-Blut (3ml), Knochenmark (1ml)	1d	
Clostridium difficile Toxigen	Real Time PCR	Stuhl (1ml)	1d	
Cryptococcus neoformans/gattii DNA	Real Time PCR	Liquor (1ml), EDTA-Blut (3ml), BAL/ TS/ Sputum (1ml)	1d	
Diphtherie Toxin DNA	Real Time PCR	Abstrich (1ml), Gewebe/ Biopsie (1g), Kultur (1ml)	1d	
Haemophilus influenzae DNA	Real Time PCR	Liquor (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser (1ml)	1d	
Helicobacter pylori DNA	Real Time PCR	Magenbiopsie (1g)	7d	
Leptospira species DNA	Real Time PCR	EDTA-Blut (3ml), Urin (1ml)	3d	
Listeria monocytogenes DNA	Real Time PCR	Liquor (1ml), EDTA-Blut (1ml), Stuhl (1ml), Gewebe/ Biopsie (1g)	1d	
MRSA DNA	Real Time PCR	Abstrich (1ml), EDTA-Blutkultur (1ml)	1d	

Mucorales DNA	Real Time PCR	BAL/ TS/ Sputum (1ml), Gewebe/ Biopsie (1g)	1d	
Mycoplasma genitalium DNA	Real Time PCR	Abstrich (1ml), Urin (1ml)	1d	
Mycoplasma hominis DNA	Real Time PCR	Abstrich (1ml), Urin (1ml)	1d	
Mycobacterium tuberculosis Komplex DNA und Rifampicinresistenz	Real Time PCR, PCR	BAL/ TS/ Sputum (1ml), Magensaft (1ml), Urin (1ml), Liquor (1ml), Gewebe/ Biopsie, Stuhl (1ml)	1-3d	
Mycobacterium ssp.	Real Time PCR	BAL/ TS/ Sputum (1ml), Magensaft (1ml), Urin (1ml), Liquor (1ml), Gewebe/ Biopsie, Stuhl (1ml)	3-7d	
Neisseria meningitidis DNA	Real Time PCR	Liquor (1ml)	1d	
Streptococcus agalacticae DNA	Real Time PCR	Abstrich (1ml), Liquor (1ml)	1d	
Streptococcus pneumoniae DNA	Real Time PCR	Abstrich (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser (1ml), Liquor (1ml)	1d	
Toxoplasma gondii DNA	Real Time PCR	EDTA-Blut (3ml) , Liquor (1ml), Gewebe/ Biopsie (1g)	1d	
Treponema pallidum DNA	Real Time PCR	Abstrich (1ml), Urin (1ml), Liquor (1ml)	1d	
Trichomonas vaginalis DNA	Real Time PCR	Abstrich (1ml)	1d	
Tropheryma whipplei DNA	Real Time PCR	Liquor (1ml), Gewebe/ Biopsie (1g), Stuhl (1ml), Urin (1ml)	1d	
Ureaplasma parvum DNA	Real Time PCR	Abstrich (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser (1ml), Urin (1ml)	1d	
Ureaplasma urealyticum DNA	Real Time PCR	Abstrich (1ml), BAL/ TS/ Sputum (1ml), Rachenspülwasser (1ml), Urin (1ml)	1d	

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