

**The Appendix is an integral part of
Certificate of Accreditation No. 613/2016 of 26/10/2016**

Accredited entity according to ČSN EN ISO 15189:2013

Laboratoře Mikrochem a.s.

Mikrochem Laboratories

Nezvalova 984/2, Hodolany, 779 00 Olomouc

Medical laboratory locations:

- | | | |
|----|--------------------------|---|
| 1. | Olomouc | Nezvalova 984/2, 779 00 Olomouc |
| 2. | Přerov | Čechova 8, 750 02 Přerov |
| 3. | Šumperk | Nerudova 34, 787 01 Šumperk |
| 4. | Valašské Meziříčí | Vsetínská 854, 757 01 Valašské Meziříčí |

1. Olomouc

Examination:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
802 - Medical Microbiology, 804 – Medical Parasitology, 805 – Medical Virology, 822 – Medical Mycology Laboratory			
1	Quantitative examination of urine by culture method	SOP 01	Urine
2	Examination of rectal swab by culture, microscopic and biochemical method	SOP 02/1	Rectal swab
3	Examination of material from upper respiratory tract by culture method	SOP 03/1	Nasal, tonsillar, nasopharyngeal, and laryngeal swab
4	Examination of material from lower respiratory tract by culture and microscopy	SOP 04/1	Sputum, endotracheal aspirate, extracted material, flush, BAL
5	Examination of material from urogenital tract including <i>Neisseria gonorrhoeae</i> , <i>Ureaplasma spp.</i> and <i>Mycoplasma hominis</i> by culture method	SOP 05/1	Vulval, vaginal, cervical, urethral, and rectal swab
6	Examination of clinical material by culture and microscopy	SOP 06/1	Swabs and smears of eyes, ears, mucous membrane and skin lesions, pieces of organs, pus, punctate and other materials, cannulas, drains, catheters, etc.
7	Determination of sensitivity of microorganisms to antibiotics by disk diffusion test	SOP 07	Isolated bacterial cultures

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
8	Identification of microorganisms by microscopic method, simple identification tests, biochemical tests and by agglutination	SOP 08	Isolated bacterial cultures
9	Quantitative determination of DNA CMV by real-time PCR method	SOP 13	Incoagulable human blood with EDTA anticoagulant, CSF, urine, bronchoalveolar lavage, amniotic fluid
10	Determination of antibodies to Tick-borne Encephalitis virus (IgM,IgG) by ELISA method	SOP 14	Serum
11	Reserved		
12	Determination of antibodies to HSV (IgM, IgG), VZV (IgM, IgG), CMV (IgM, IgG) by ELISA method	SOP 16	Serum
13	Determination of antibodies to <i>Borrelia afzelii</i> (IgM, IgG), <i>Borrelia garinii</i> (IgM, IgG), <i>Borrelia burgdorferi</i> sensu lato (IgM, IgG) by Western blot method	SOP 17	Serum, punctate
14	Determination of non-specific and specific antibodies to <i>Treponema pallidum</i> by agglutination (TPHA, RRR)	SOP 18	Serum
15-17	Reserved		
18	Determination of IgA, IgG antibodies to <i>Chlamydia trachomatis</i> , IgM, IgA, IgG antibodies to <i>Chlamydia pneumoniae</i> by ELISA method	SOP 22	Serum
19	Reserved		
20	Determination of IgM, IgG antibodies to <i>Borrelia burgdorferi</i> sensu lato by ELISA method using an automatic analyzer	SOP 24	Serum, cerebrospinal fluid, punctate

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
21	Determination of <i>Giardia intestinalis</i> , <i>Entamoeba histolytica</i> , and <i>Cryptosporidium sp.</i> antigens by ELISA method	SOP 26	Stool
22	Determination of antibodies to <i>Toxoplasma gondii</i> by CFR (complement fixation reaction) method (specific antibodies)	SOP 27	Serum
23	Determination of antibodies to <i>Chlamydia sp.</i> , influenza virus A, B, adenoviruses, RS virus, CMV, HSV, VZV and Tick-borne Encephalitis virus by CFR (complement fixation reaction) method (specific antibodies)	SOP 28	Serum
24	Determination of IgA and IgG antibodies to <i>Helicobacter pylori</i> by ELISA method	SOP 29	Serum
25-28	Reserved		
29	Determination of IgE, IgA antibodies to <i>Toxoplasma gondii</i> by ELISA method	SOP 35	Serum
30	Reserved		
31	Determination of IgG antibodies to <i>Toxocara canis</i> by ELISA method	SOP 37	Serum
32	Parasitological examination of stool by microscopy by Faust's flotation method	SOP 38	Stool
33	Parasitological examination of stool by microscopy by Kato Thick Smear method	SOP 39	Stool
34	Reserved		
35	Examination for enterobiasis and taeniasis by Graham imprint method	SOP 41	Slide with lepex
36-38	Reserved		

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
39	Determination of hepatitis B virus antigens (HBsAg, HBeAg) and antibodies to hepatitis B virus antigens (anti -HBs, anti -Hbe, anti HBc, IgM anti-Hbc), confirmation of HBsAg antigen, antibodies to hepatitis A virus (IgM, IgG), antibodies to hepatitis C virus (anti-HCV) and HIV Ag/Ab combo by chemiluminescence method (CMIA) on the Architekt automatic analyzer	SOP 48a	Serum
40	Determination of IgM and IgG antibodies to <i>Toxoplasma gondii</i> by chemiluminescence method (CMIA) on an automatic analyzer	SOP 48b	Serum
41	Determination of antibodies to <i>Treponema pallidum</i> by chemiluminescence method (CMIA) on an automatic analyzer	SOP 48c	Serum
42-100	Reserved		

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
813 - Allergology and Immunology Laboratory			
1	Determination of anti-nuclear antibodies (ANA) anti-neutrophil cytoplasmic antibodies (ANCA), anti-double stranded DNA antibodies (ds DNA), anti-endomysial antibodies (EMA) by indirect immunofluorescence method	SOP 19	Serum
2	Determination of proteins ASO, RF, CRP, IgG, IgA, IgM, C3, C4 by nephelometry and determination of total IgE by turbidimetry on the IMMAGE analyzer	SOP 20	Serum
3	Determination of CD3, CD4, CD8, CD19, CD16+56 cell surface markers by flow cytometry method	SOP 21	Serum
4	Determination of autoantibodies to extractable nuclear antigens (ENA PROFIL), double stranded DNA (ds DNA) by ELISA method	SOP 23	Serum
5	Determination of antibodies to gliadin, cow's milk and tissue transglutaminase by ELISA method	SOP 31	Serum
6-100	Reserved		

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Primary sampling:

Ordinal number ¹⁾	Primary sampling procedure name	Primary sampling procedure identification	Primary sample
401	Sampling of biological materials	SOP 42a	HCD swabs
402	Sampling of biological materials	SOP 42b	Rectal swabs and lepex
403	Venous blood sampling	SOP 43	Venous blood
404-500	Reserved		

- 1) Asterisk at the ordinal number identifies the **sampling** procedures, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

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2. Přerov

Examination:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
802 - Medical Microbiology, 804 – Medical Parasitology, 805 – Medical Virology, 822 – Medical Mycology Laboratory			
101	Quantitative examination of urine by culture method	SOP 01	Urine
102	Examination of rectal swab by culture, microscopic and biochemical method	SOP 02/2	Rectal swab
103	Examination of material from upper respiratory tract by culture method	SOP 03/2	Nasal, tonsillar, nasopharyngeal, and laryngeal swab
104	Examination of material from lower respiratory tract by culture and microscopy	SOP 04/2	Sputum, endotracheal aspirate, extracted material, flush, BAL
105	Examination of material from urogenital tract including <i>Neisseria gonorrhoeae</i> , <i>Ureaplasma spp.</i> and <i>Mycoplasma hominis</i> by culture method	SOP 05/2	Vulval, vaginal, cervical, urethral, and rectal swab
106	Examination of clinical material by culture and microscopy	SOP 06/2	Swabs and smears of eyes, ears, mucous membrane and skin lesions, pieces of organs, pus, punctate and other materials, cannulas, drains, catheters, etc.
107	Determination of sensitivity of microorganisms to antibiotics by disk diffusion test	SOP 07	Isolated bacterial cultures
108	Identification of microorganisms by microscopic method, simple identification tests, biochemical tests and by agglutination	SOP 08	Isolated bacterial cultures

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
109	Detection of high risk human papillomavirus DNA by molecular hybridization of nucleic acids	SOP 11	Cervical swab and cervical biopsy
110	Detection of <i>Chlamydia trachomatis</i> and <i>Neisseria gonorrhoeae</i> DNA by molecular hybridization of nucleic acids	SOP 12	Cervical, urethral and conjunctival sac swab
111	Determination of hepatitis C virus antigen and antibodies by ELISA method	SOP 15	Serum
112	Determination of non-specific and specific antibodies to <i>Treponema pallidum</i> by agglutination (TPHA, RRR)	SOP 18	Serum
113	Reserved		
114	Determination of HBs antigen and confirmation test for hepatitis B by ELISA method	SOP 44	Serum
115-200	Reserved		

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Primary sampling:

Ordinal number ²⁾	Primary sampling procedure name	Primary sampling procedure identification	Primary sample
501	Sampling of biological materials	SOP 42a	HCD swabs
502	Sampling of biological materials	SOP 42b	Rectal swabs and lepex
503	Venous blood sampling	SOP 43	Venous blood
504-550	Reserved		

- 2) Asterisk at the ordinal number identifies the **sampling** procedures, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

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3. Šumperk

Examination:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
802 - Medical Microbiology, 804 – Medical Parasitology, 805 – Medical Virology, 822 – Medical Mycology Laboratory			
201	Quantitative examination of urine by culture method	SOP 01	Urine
202	Examination of rectal swab by culture, microscopic and biochemical method	SOP 02/3	Rectal swab
203	Examination of material from upper respiratory tract by culture method	SOP 03/3	Nasal, tonsillar, nasopharyngeal, and laryngeal swab
204	Examination of material from lower respiratory tract by culture and microscopy	SOP 04/3	Sputum, endotracheal aspirate, extracted material, flush, BAL
205	Examination of material from urogenital tract including <i>Neisseria gonorrhoeae</i> , <i>Ureaplasma spp.</i> and <i>Mycoplasma hominis</i> by culture method	SOP 05/3	Vulval, vaginal, cervical, urethral, and rectal swab
206	Examination of clinical material by culture and microscopy	SOP 06/3	Swabs and smears of eyes, ears, mucous membrane and skin lesions, pieces of organs, pus, punctate and other materials, cannulas, drains, catheters, etc.
207	Determination of sensitivity of microorganisms to antibiotics by disk diffusion test	SOP 07	Isolated bacterial cultures
208	Identification of microorganisms by microscopic method, simple identification tests, biochemical tests and by agglutination	SOP 08	Isolated bacterial cultures

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
209	Detection of mycobacteria in sputum and other clinical materials by microscopic and culture method	SOP 09	Induced sputum, BAL, stomach lavage, urine, cerebrospinal fluid, pleural exudate, punctates, smears and swabs from fistulae, pus processes and wounds, menstrual blood, stool, bioptic and section material, laryngeal swab
210	Reserved		
211	Determination of antibodies to <i>Borrelia afzelii</i> (IgM, IgG), <i>Borrelia garinii</i> (IgM, IgG), <i>Borrelia burgdorferi</i> sensu lato (IgM, IgG) by Western blot method	SOP 17	Serum
212	Determination of IgA, IgG antibodies to <i>Chlamydia trachomatis</i> , IgM, IgA, IgG antibodies to <i>Chlamydia pneumoniae</i> by ELISA method	SOP 22	Serum
213	Determination of IgM, IgG antibodies to <i>Borrelia afzelii</i> , <i>Borrelia garinii</i> by ELISA method	SOP 25	Serum
214	Parasitological examination of stool by microscopy by Faust's flotation method	SOP 38	Stool
215	Parasitological examination of stool by microscopy by Kato Thick Smear method	SOP 39	Stool
216	Examination for enterobiasis and taeniasis by Graham imprint method	SOP 41	Slide with lepex
217*	Testing of efficiency of sterilizers using biological indicators and chemical tests	SOP 47	Steam, hot air and formaldehyde sterilizers

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
218	Determination of antibodies to CMV (IgM, IgG, avidity IgG) and EBV (EBNA IgG, VCA IgM, IgG, EA-D IgM, IgG) by ELISA method on the Chorus Trio analyzer	SOP 49	Serum
219	Determination of IgG, IgA, IgM antibodies to <i>Chlamydia pneumoniae</i> by ELISA method on an automatic analyzer	SOP 50	Serum
220-300	Reserved		

* Test partially carried out outside the Mikrochem Laboratories workplace.

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4. Valašské Meziříčí

Examination:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
802 - Medical Microbiology, 804 – Medical Parasitology, 805 – Medical Virology, 822 – Medical Mycology Laboratory			
301	Quantitative examination of urine by culture method	SOP 01	Urine
302	Examination of rectal swab by culture, microscopic and biochemical method	SOP 02/4	Rectal swab
303	Examination of material from upper respiratory tract by culture method	SOP 03/4	Nasal, tonsillar, nasopharyngeal, and laryngeal swab
304	Examination of material from lower respiratory tract by culture and microscopy	SOP 04/4	Sputum, endotracheal aspirate, extracted material, flush, BAL
305	Examination of material from urogenital tract including <i>Neisseria gonorrhoeae</i> , <i>Ureaplasma spp.</i> and <i>Mycoplasma hominis</i> by culture method	SOP 05/4	Vulval, vaginal, cervical, urethral, and rectal swab
306	Examination of clinical material by culture and microscopy	SOP 06/4	Swabs and smears of eyes, ears, mucous membrane and skin lesions, pieces of organs, pus, punctate and other materials, cannulas, drains, catheters, etc.
307	Determination of sensitivity of microorganisms to antibiotics by disk diffusion test	SOP 07	Isolated bacterial cultures
308	Identification of microorganisms by microscopic method, simple identification tests, biochemical tests and by agglutination	SOP 08	Isolated bacterial cultures
309	Reserved		

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
310	Determination of non-specific and specific antibodies to <i>Treponema pallidum</i> by agglutination (TPHA, RRR)	SOP 18	Serum
311-400	Reserved		