The Appendix is an integral part of
Certificate of Accreditation No. 541/2021 of 20/10/2021

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. **Workplace Olomouc** Nezvalova 984/2, 779 00 Olomouc
2. **Workplace Přerov** Čechova 988/8, 750 02 Přerov
3. **Workplace Šumperk** Nerudova 195/34, 787 01 Šumperk
4. **Workplace Valašské Meziříčí** Vsetínská 854/60a, 757 01Valašské Meziříčí
5. **Sample Collection Room Šumperk** Dr. E. Beneše 2871/5, 787 01 Šumperk

1. **Workplace Olomouc**

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
802 - Medical microbiology			
1.	Quantitative examination of urine by culture method (manually and on an automatic analyser)	SOP 01/1	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 *Neisseria gonorrhoeae, Ureaplasma spp.* and *Mycoplasma hominis* 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.

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
7.	Determination of sensitivity of microorganisms to antibiotics by disk diffusion test	SOP 07	Isolated bacterial cultures
8.	Identification of microorganisms by microscopic method, simple identification tests, biochemical tests and by agglutination	SOP 08	Isolated bacterial cultures
9.	Determination of antibodies to Tick-borne Encephalitis virus (IgM, IgG) by ELISA method (manually and on an automatic analyser) [Tick-borne Encephalitis IgM, Tick-borne Encephalitis IgG]	SOP 14	Serum
10.	Determination of antibodies to CMV (IgM, IgG) by ELISA method (manually and on an automatic analyser) [Cytomegalovirus IgM, Cytomegalovirus IgG, Cytomegalovirus avidity IgG]	SOP 16	Serum
11.	Determination of antibodies to *Borrelia afzelii* (IgM, IgG), *Borrelia garinii* (IgM, IgG), *Borrelia burgdorferi* sensu lato (IgM, IgG) by Western blot method [immunoblot Borrelia IgG, VlsE, p39, p83, BBA36, BBO323, Crasp3, pG, immunoblot Borrelia IgM, p23(OspC),VlsE, p39]	SOP 17	Serum, punctate

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
12.	Determination of non-specific antibodies to *Treponema pallidum* by agglutination [Reaginic antibodies - RPR]	SOP 18	Serum
13.	Determination of IgA, IgG antibodies to *Chlamydia trachomatis*, IgM, IgA, IgG antibodies to *Chlamydia pneumoniae* by ELISA method (manually and on an automatic analyser) [Chlamydia pneumoniae IgA, Chlamydia pneumoniae IgG, Chlamydia pneumoniae IgM, Chlamydia trachomatis IgA, Chlamydia trachomatis IgG]	SOP 22	Serum
14.	Determination of *Giardia intestinalis*, *Entamoeba histolytica* antigen by ELISA method [Entamoeba histolytica antigen detection, Giardia intestinalis antigen detection]	SOP 26	Stool
15.	Determination of antibodies to *Toxoplasma gondii* by CFR (complement fixation reaction) method, (specific antibodies) [Toxoplasma CFR, Toxoplasma IgG, Toxoplasma IgM, Toxoplasma ELISA IgA, Toxoplasma ELISA IgE]	SOP 27	Serum

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
16.	Determination of antibodies to *Chlamydia sp*., influenza virus A, B, adenoviruses, RS virus, CMV, HSV, VZV and Tick-borne Encephalitis virus by CFR (complement fixation reaction) method, (specific antibodies) [Chlamydia CFR, Influenza type A CFR, Influenza type B CFR, Adenovirus CFR, RS virus CFR, Cytomegalovirus CFR, Herpes simplex CFR, Varicella zoster CFR, Tick-borne Encephalitis CFR]	SOP 28	Serum
17.	Determination of IgE, IgA antibodies to *Toxoplasma gondii* by ELISA method [Anti-toxoplasma antibodies CFR, Toxoplasma IgG, Toxoplasma IgM, Toxoplasma ELISA IgA]	SOP 35	Serum
18.	Determination of IgG antibodies to *Toxocara canis* by ELISA method [Antibodies to Toxocara canis, Toxocara ELISA IgG]	SOP 37	Serum
19.	Parasitological examination of stool by microscopy by Faust's flotation method	SOP 38	Stool
20.	Parasitological examination of stool by microscopy by Kato Thick Smear method	SOP 39	Stool

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
21.	Examination for enterobiasis and taeniasis by Graham imprint method	SOP 41	Perianal imprint
22.	Determination of hepatitis B virus antigens (HBsAg, HBeAg) and antibodies against hepatitis B virus antigens (anti HBs, anti HBe, anti HBc, IgM, antiHBc), confirmation of HBsAg antigen, antibodies against hepatitis A virus (IgM, IgG), antibodies against hepatitis C virus (anti-HCV) by chemiluminescence (CMIA) on an automatic analyser [HBsAg, HBeAg, Anti HBs, Anti HBe, Anti HBc IgM, Anti HBc TOTAL, HBsAg-CONFIRMATION, Anti HAV IgM, Anti HAV IgG, HCV Ab]	SOP 48a	Serum
23.	Determination of IgM and IgG antibodies to *Toxoplasma gondii* by chemiluminescence method (CMIA) on an automatic analyser [Anti-toxoplasma antibodies, Toxoplasma CFR, Toxoplasma IgG, Toxoplasma IgM]	SOP 48b	Serum

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
24.	Determination of antibodies to *Treponema pallidum* by chemiluminescence method (CMIA) [Syphilis]	SOP 48c	Serum
25.	Determination of HIV Ag/Ab combo antigen and antibodies by chemiluminescence (CMIA) method on an automatic analyser [HIV1+HIV2 Ab/Ag]	SOP 48d	Serum
26.	Qualitative detection of high-risk types of HPV by real-time polymerase chain reaction (PCR) [PCR amplification of high-risk HPV, Typing HPV 16, Typing HPV 18, Typing HPV 45]	SOP 52	Cervical, vaginal, cervicovaginal smear, smear of the penis
813 - Allergology and Immunology Laboratory			
1.	Determination of antinuclear (ANA) antineutrophil cytoplasmic (ANCA), double-stranded DNA (ds DNA) IgG antibodies and endomysial (EMA) IgA antibodies by indirect immunofluorescence [ANF Antinuclear factor, anti ds-DNA Ab IF, ANCA immunofluorescence, Anti EMA IgA (endomysium)]	SOP 19	Serum

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Ordinal number	Examination procedure name	Examination procedure identification	Examined object
2.	Determination of proteins ASLO, RF, CRP, IgG, IgA, IgM, C3, C4 by nephelometry and determination of total IgE by turbidimetry on an automatic analyser [ASLO, Rheumatoid factor, C-reactive protein, Immunoglobulin IgG, Immunoglobulin IgA, Immunoglobulin IgM, Complement system C3, Complement system C4, Immunoglobulin IgE total]	SOP 20	Serum
3.	Determination of autoantibodies against extractable nuclear antigens and double-stranded DNA (ds DNA) by ELISA method [ENA typing: Jo-1, ENA typing: La (SS-B), ENA typing: Ro (SS-A), ENA typing: Scl-70, ENA typing: Sm/RNP, anti ds-DNA Ab ELISA]	SOP 23	Serum
4.	Determination of IgA, IgG antibodies against gliadin and IgA against tissue transglutaminase by ELISA method [Anti-gliadin IgA, Anti-gliadin IgG, Anti transglutaminase IgA]	SOP 31	Serum

Names in brackets [ ] are the names of examinations shown in the reports.

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Primary sampling:

Ordinal number	Primary sampling procedure name	Primary sampling procedure identification	Primary sample
1.	Sampling of biological materials	SOP 42a	HCD swabs
2.	Sampling of biological materials	SOP 42b	Rectal swabs and perianal imprints
3.	Venous blood sampling	SOP 43	Venous blood

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2. Workplace Přerov

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
802 - Medical microbiology			
1.	Quantitative examination of urine by culture method	SOP 01/2	Urine
2.	Examination of rectal swab by culture, microscopic and biochemical method	SOP 02/2	Rectal swab
3.	Examination of material from upper respiratory tract by culture method	SOP 03/2	Nasal, tonsillar, nasopharyngeal, and laryngeal swab
4.	Examination of material from lower respiratory tract by culture and microscopy	SOP 04/2	Sputum, endotracheal aspirate, extracted material, flush, BAL
5.	Examination of material from urogenital tract including *Neisseria gonorrhoeae, Ureaplasma spp. and Mycoplasma hominis* by culture method	SOP 05/2	Vulval, vaginal, cervical, urethral, and rectal swab
6.	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.
7.	Determination of sensitivity of microorganisms to antibiotics by disk diffusion test	SOP 07	Isolated bacterial cultures
8.	Identification of microorganisms by microscopic method, simple identification tests, biochemical tests and by agglutination	SOP 08	Isolated bacterial cultures

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Primary sampling:

Ordinal number	Primary sampling procedure name	Primary sampling procedure identification	Primary sample
1.	Sampling of biological materials	SOP 42a	HCD swabs
2.	Sampling of biological materials	SOP 42b	Rectal swabs and perianal imprints
3.	Venous blood sampling	SOP 43	Venous blood

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3. Workplace Šumperk

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
802 - Medical microbiology			
1.	Quantitative examination of urine by culture method	SOP 01/3	Urine
2.	Examination of rectal swab by culture, microscopic and biochemical method	SOP 02/3	Rectal swab
3.	Examination of material from upper respiratory tract by culture method	SOP 03/3	Nasal, tonsillar, nasopharyngeal, and laryngeal swab
4.	Examination of material from lower respiratory tract by culture and microscopy	SOP 04/3	Sputum, endotracheal aspirate, extracted material, flush, BAL
5.	Examination of material from urogenital tract including *Neisseria gonorrhoeae, Ureaplasma spp.* and *Mycoplasma hominis* by culture method	SOP 05/3	Vulval, vaginal, cervical, urethral, and rectal swab
6.	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.
7.	Determination of sensitivity of microorganisms to antibiotics by disk diffusion test	SOP 07	Isolated bacterial cultures
8.	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
9.	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.	Determination of antibodies against *Borrelia afzelii* (IgM, IgG), *Borrelia garinii* (IgM, IgG), *Borrelia burgdorferi* sensu lato (IgM, IgG) by Western blot method [immunoblot Borrelia IgG, VlsE, p39, p83, BBA36, BBO323, Crasp3, pG, immunoblot Borrelia IgM, p23(OspC),VlsE, p39]	SOP 17	Serum
11.	Parasitological examination of stool by microscopy by Faust's flotation method	SOP 38	Stool
12.	Parasitological examination of stool by microscopy by Kato Thick Smear method	SOP 39	Stool
13.	Examination for enterobiasis and taeniasis by Graham imprint method	SOP 41	Perianal imprint
14.*	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
15.	Determination of IgM, IgA, IgG antibodies to *Chlamydia pneumoniae* by ELISA method on an automatic analyser [EIA chlamydia pneumoniae IgA, EIA Chlamydia pneumoniae IgG, EIA Chlamydia pneumoniae IgM]	SOP 50	Serum
16.	Determination of IgM and IgG antibodies to *Borrelia burgdorferi sensu lato* by chemiluminescence method (CMIA) [CLIA Borrelia sp. IgG, CLIA Borrelia sp. IgM]	SOP 51	Serum

Names in brackets [ ] are the names of examinations shown in the reports.

* the test was partially performed outside the Mikrochem Laboratories workplace

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4. Workplace Valašské Meziříčí

Primary sampling

Ordinal number	Primary sampling procedure name	Primary sampling procedure identification name	Primary sample
1.	Sampling of biological material	SOP 42a	HCD swabs
2.	Sampling of biological material	SOP 42b	Rectal swabs and perianal imprints
3.	Venous blood sampling	SOP 43	Venous blood

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5. Sample Collection Room Šumperk

Primary sampling:

Ordinal number	Primary sampling procedure name	Primary sampling procedure identification name	Primary sample
1.	Sampling of biological material	SOP 42a	HCD swabs
2.	Sampling of biological material	SOP 42b	Rectal swabs and perianal imprints
3.	Venous blood sampling	SOP 43	Venous blood