

**The Appendix is an integral part of
Certificate of Accreditation No. 84/2023 of 24/02/2023**

Accredited entity according to ČSN EN ISO 15189:2013:

Laboratoře Mikrochem a.s.
CAB Number 8062, 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 01 Valašské 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 <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. |

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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,] | SOP 16 | Serum |
| 11. | 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 [immunoblot <i>Borrelia</i> IgG, VlsE, p39, p83, BBA36, BBO323, Crasp3, pG, immunoblot <i>Borrelia</i> IgM, p23(OspC), VlsE, p39] | SOP 17 | Serum, punctate |
| 12. | Reserved | | |

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| Ordinal number | Examination procedure name | Examination procedure identification | Examined object |
|----------------|--|--------------------------------------|-----------------|
| 13. | Determination of IgA, IgG antibodies to <i>Chlamydia pneumoniae</i> by ELISA method (manually and on an automatic analyzer) [Chlamydia pneumoniae IgA, Chlamydia pneumoniae IgG] | SOP 22 | Serum |
| 14. | Determination of <i>Giardia intestinalis</i> , <i>Entamoeba histolytica</i> antigen by ELISA method [Entamoeba histolytica antigen detection, Giardia intestinalis antigen detection] | SOP 26 | Stool |
| 15. | Reserved | | |
| 16. | Reserved | | |
| 17. | Determination of IgE, IgA antibodies to <i>Toxoplasma gondii</i> by ELISA method [Anti-toxoplasma antibodies CFR, Toxoplasma IgG, Toxoplasma IgM, Toxoplasma ELISA IgA] | SOP 35 | Serum |
| 18. | Reserved | 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 <i>Toxoplasma gondii</i> 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 <i>Treponema pallidum</i> 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 IgG Antinuclear Antibodies (ANA) by indirect immunofluorescence method [ANF Antinuclear factor] | SOP 19 | Serum |
| 2. | Determination of IgG, IgA, IgM proteins by nephelometry on an automatic analyzer [Immunoglobulin IgG, Immunoglobulin IgA, Immunoglobulin IgM] | SOP 20 | Serum |
| 3. | Reserved | | |

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| Ordinal number | Examination procedure name | Examination procedure identification | Examined object |
|----------------|---|--------------------------------------|-----------------|
| 4. | Determination of IgA antibodies to tissue transglutaminase by ELISA method [Anti transglutaminase IgA] | SOP 31 | Serum |

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

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 <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 |
| 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 <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 |
| 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 |
| 10. | Determination of antibodies against <i>Borrelia afzelii</i> (IgM, IgG), <i>Borrelia garinii</i> (IgM, IgG), <i>Borrelia burgdorferi</i> sensu lato (IgM, IgG) by Western blot method [immunoblot <i>Borrelia</i> IgG, VlsE, p39, p83, BBA36, BBO323, Crasp3, pG, immunoblot <i>Borrelia</i> 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 <i>Chlamydia pneumoniae</i> 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 <i>Borrelia burgdorferi sensu lato</i> 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 |