


Schedule of Accreditation

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United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>UKAS MEDICAL 8640</p> <p>Accredited to ISO 15189:2012</p>	<h3>Viapath Analytics LLP</h3> <p>Issue No: 006 Issue date: 28 September 2021</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN TISSUES AND FLUIDS</p> <p>Aspirates Cellular & fluid material contained on swabs, catheter tips, pacing wires and intra-uterine contraceptive devices Fluids Heart valve/vegetation Lymph node aspirate Pus Renal / Bladder stone Tissues Samples from sterile sites Genital samples Semen</p> <p>Aspirates Corneal scrapes Aqueous & vitreous tap Cerebrospinal fluid (CSF) Fluids Tissues</p> <p>Urine</p>	<p><u>Microbiological examinations for the purpose of clinical diagnosis</u></p> <p><u>General Bacteriology/Microbiology</u></p> <p>Isolation of clinically significant bacteria and fungi</p> <p>Detection, identification & quantification of: White blood cells Differential WBC count (CSF) Red blood cells Bacterial cells Yeast cells and fungal hyphae</p> <p>Isolation of clinically significant bacteria and fungi</p>	<p>In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions</p> <p>Manual culture using: IIM-SOP-Processing Specialist Specimens IIM-SOP-Reading Specialist Specimens</p> <p>Staining and microscopic examination using: IIM-SOP-Processing Specialist Specimens IIM-SOP- Specialist Area CAP Fluids</p> <p>Manual culture using: IIM-SOP- Urine Methods IIM-SOP Urines Plate Reading</p>



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examinations for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions
Urine	Detection, identification & quantification of: White blood cells Red blood cells Squamous epithelial cells Bacterial cells Casts	Automated urinalysis, Image capture and recognition using: IIM-SOP-Sedimax operation and: A.Menarini Diagnostics SediMAX Manual microscopy using: IIM-SOP- Urine Methods
Blood Bone marrow	Isolation of clinically significant bacteria and fungi	Automated culture using: IIM-BD BACTEC FX: Use & Maintenance IIM-SOP-Blood Culture Processing and Reading Bench IIM-SOP-Auramine and ZN staining and: Becton Dickinson BacTec FX followed by manual subculture, identification & susceptibility testing as listed below
Expressed breast milk	Sterility check	Manual culture: IIM-SOP-Processing Specialist Specimens IIM-SOP-Reading Specialist Specimens
Cellular and fluid material contained on swabs from nose, throat & groin/perineum	Screening for: Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) <i>Candida auris</i>	Manual culture using: IIM-SOP-Resistance Screening
Cellular and fluid material contained on rectal & throat swabs	Screening for Gentamicin-resistant Enterobacteriaceae	Manual culture using: IIM-SOP-Resistance Screening
Cellular and fluid material contained on rectal swabs	Screening for Vancomycin-resistant Enterococci (VRE)	Manual culture using: IIM-SOP-Resistance Screening
Cellular and fluid material contained on rectal swabs	Screening for Carbapenamase-resistant organisms	Manual culture using: IIM-SOP-Resistance Screening



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examinations for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions
Faeces	Isolation of bacterial enteric pathogens: <i>Clostridium difficile</i> <i>Escherichia coli</i> O157 <i>Salmonella</i> sp. <i>Shigella</i> spp. <i>Vibrio</i> spp. <i>Yersinia</i> spp. <i>Pleisiomonas</i> sp.	Manual culture using: IIM-SOP-Faeces Processing IIM-SOP-Faeces Bench Reading
Faeces Blood	Isolation of <i>Campylobacter</i> spp.	Manual culture using: IIM-SOP- Faeces Bench Reading
Bronchoalveolar lavage (BAL) Bronchial aspirate, brushings & washings Cellular and fluid material contained on swabs Endotracheal tube specimen Nasopharyngeal aspirate (NPA) Sputum	Isolation of clinically significant bacteria and fungi	Manual culture using: IIM-SOP-Processing of Respiratory Samples IIM-SOP-Respiratory Plate Reading
Cellular and fluid material contained on swabs	Isolation of <i>Bordetella</i> spp.	Manual culture using: IIM-SOP-Swabs Bench Reading
Bacterial & fungal isolates cultured in-house from the above	Identification/ Biological classification	Manual and/or automated identification using: Bruker Maldi-ToF IIM-SOP- Operation of the Bruker Microflex Biotyper (MALDI-TOF) BioMérieux Vitek IIM-SOP-VITEK2 Operation and: Bruker Microflex Biotyper BioMérieux Vitek2 Manual biochemical/enzymatic & staining/microscopic methods



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examinations for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions
Bacterial isolates cultured in-house from the above	Antibiotic susceptibility testing	Disc diffusion & gradient minimum inhibitory concentration determination using current EUCAST methodology & interpretive breakpoints: IIM-SOP-EUCAST Antimicrobial susceptibility testing Automated using: IIM-SOP-VITEK 2 Operation and: BioMérieux Vitek2
Yeast isolates cultured in-house from the above	Antifungal susceptibility testing	Automated using: IIM-SOP-VITEK 2 Operation and: BioMérieux Vitek2
Faeces	Detection of DNA from enteric pathogens: <i>Salmonella</i> sp. <i>Shigella</i> spp. <i>E. coli</i> O157 <i>Campylobacter</i> spp.	Realtime PCR using: IIM-SOP-BD Max and: Becton Dickinson BD Max System
Faeces	Detection of ova, cysts & parasites (OCP)	Unstained and iodine stained direct microscopic examination Formol-ether faecal concentration and microscopic examination using: IIM-SOP Parasite Methods
Faeces	Detection of <i>Cryptosporidium</i> oocysts	Auramine phenol staining and fluorescence microscopy using: IIM-SOP-Parasite Methods
Clear adhesive tape slides	Detection of <i>Enterobius vermicularis</i> larvae and ova	Microscopic examination using: IIM-SOP- Parasite Methods



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examinations for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions
Bile Duodenal aspirates Jejunal aspirates	Detection of OCP including: <i>Strongyloides stercoralis</i> larvae <i>Giardia lamblia</i> trophozoites <i>Cryptosporidium</i> oocysts <i>Cyclospora cayetanesis</i> oocysts <i>Cystoisospora belli</i> oocysts	Microscopic examination using: IIM-SOP- Parasite Methods
Female genital tract swabs	Microscopic diagnosis of bacterial vaginitis Detection of <i>Trichomonas vaginalis</i>	Gram stained microscopic examination using: IIM-SOP-Processing Swabs
Urine	Detection of: <i>Legionella pneumophila</i> serotype 1 antigen <i>Streptococcus pneumoniae</i> soluble antigen	Membrane immunochromatographic assay using: IIM-SOP-Binax NOW Legionella and Pneumococcal urinary antigens and: Binax NOW kits
Respiratory samples Early morning urine (EMU) Gastric aspirates Fluids Tissues Pus Fine needle aspirates (FNA) Cerebrospinal fluid (CSF) Faeces	Detection of acid alcohol-fast bacilli (AAFB)	Auramine Phenol staining followed by fluorescence microscopy using: IIM-SOP-Auramine and ZN Staining



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Respiratory samples Early morning urine (EMU) Gastric aspirates Fluids Tissues Pus Fine needle aspirates (FNA) Cerebrospinal fluid (CSF) CSF Serum</p>	<p><u>Microbiological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Detection of: <i>Mycobacterium tuberculosis</i> DNA Rifampicin-resistance genes</p> <p><i>Cryptococcus</i> Antigen</p>	<p>In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions</p> <p>Realtime PCR using: IIM-SOP-Cepheid GeneXpert Assays and: Cepheid GeneXpert</p> <p>Manual lateral flow immunochromatographic assay using: IIM-SOP-Cryptococcal Antigen Lateral Flow Assay and: IMMY CrAg LFA</p>



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examinations for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions
Respiratory samples	Detection of nucleic acids from: Influenza A Influenza B Respiratory Syncytial Virus	Realtime PCR using: IIM-SOP-Cepheid GeneXpert Assays and: Cepheid GeneXpert
Combined nose & throat swabs in VTM, UTM or liquid Amies Medium	Detection of SARS-CoV-2 virus RNA (COVID-19); specific gene sequences E & N2	Realtime PCR using: IIM-SOP-Rapid COVID-19 Testing and: Cepheid GeneXpert & Xpert Xpress SARS-CoV-2 test cartridge
Combined nose & throat swabs in VTM, UTM or liquid Amies Medium	Detection of SARS-CoV-2 virus RNA (COVID-19); specific gene sequences Orf1ab & N	Realtime PCR using: IIM-SOP-Rapid COVID-19 Testing and: Mobidiag Novodiag & Novodiag COVID-19 test cartridge



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Serum	<p><u>Serology</u></p> <p>Microbial serology for: HIV-1 & HIV-2 Antibodies and HIV-1 p24 Antigen* Hepatitis B surface Antigen* Hepatitis B surface Antigen confirmation Hepatitis B surface Antibody Hepatitis B core total Antibody Hepatitis B core IgM Hepatitis B e Antigen Hepatitis B e Antibody Hepatitis A IgM Hepatitis A IgG Hepatitis C Antibody Hepatitis C Antigen Rubella IgG Cytomegalovirus IgG Syphilis total Antibody* HTLV I & II Antibodies</p>	<p>Documented-in-house methods to meet the requirements of the Infectious Diseases in Pregnancy Screening programme as defined in the July 2018 'Infectious Diseases in Pregnancy Screening: laboratory QA evidence requirements' (targets marked *)</p> <p>Qualitative and quantitative chemiluminescent immunoassays using: IIV-SOP-Maintenance and Routine Use Of the Architect i2000SR IIV-SOP-Architect Assays and: Abbott Architect i2000SR</p>



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examinations for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions
Serum	Microbial serology for: Cytomegalovirus IgM Epstein-Bar Virus Nuclear Antigen IgG Epstein-Bar Virus Viral Capsid Antigen IgM Epstein-Bar Virus Viral Capsid Antigen IgG Herpes Simplex Virus 1&2 IgG Herpes Simplex Virus 2 IgG Measles IgG Parvovirus B19 IgG Parvovirus B19 IgM Toxoplasma IgG Toxoplasma IgM Varicella-zoster Virus IgG	Qualitative chemiluminescent assay using: IIV-SOP-Liaison Operation and Maintenance IIV-SOP-Liaison Assays and: DiaSorin LIAISON XL
Serum	Microbial serology for: Rubella IgG (confirmation) Rubella IgM Cytomegalovirus IgG (confirmation) HIV-1 p24 Antigen HIV-1 p24 Antigen Neutralisation <i>Borrelia burgdorferi</i> Antibodies Mumps virus IgG	Enzyme-linked fluorescent assay using: IIIV-SOP-VIDAS 3 Operation and Maintenance IIV-SOP-VIDAS 3 Assays and BioMérieux Vidas 3
Serum	HIV-1/HIV-2 Antibody (confirmation)	Manual immunochromatographic assay using: IIV-SOP-Geenius HIV Confirmatory and: BioRad Geenius HIV-1/2 Confirmatory kit
Serum	Hepatitis C antibody (confirmation)	Manual ELISA using: IIV-SOP-Hepatitis C Confirmation and: Biorad Monolisa anti-HCV Plus v3 Kit



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Serum</p> <p>Serum</p>	<p><u>Microbiological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Anti-streptolysin O titre (ASOT)</p> <p>Anti-Streptococcal Dnase (ADN)</p>	<p>In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions</p> <p>Manual latex agglutination using: IIV-SOP-ASOT and: Biokit Rheumajet ASO Latex Kit</p> <p>Manual latex agglutination using: IIV-SOP-ASOT and: BioMérieux ASD kit</p>



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Serum	Syphilis antibodies	Manual passive partial agglutination using: IIV-SOP-TPPA and: Serodia TPPA kit
Faeces	Microbial serology for: <i>Clostridium difficile</i> glutamate dehydrogenase (GDH) Antigen <i>C. difficile</i> toxins A & B <i>Helicobacter pylori</i> Antigen	Automated DS2 ELISA using: IIM-SOP Use of the DS2 for CDT and HPylori and: Dynex DS2
Faeces	<i>H. pylori</i> Antigen	Rapid lateral flow immunochromatographic assay using: IIM-SOP-Helicobacter Immunocard and: ImmunoCard <i>H. pylori</i>
Faeces	<i>C. difficile</i> GDH Antigen <i>C. difficile</i> toxins A & B	Membrane immunochromatographic assay using: IIM-SOP-C.difficile Quik check complete immunocard and: Alere C.DIFF QUIK CHEK Complete
Faeces	Detection of <i>C. difficile tcdB</i> gene	Realtime PCR using: IIM-SOP-Use of Cepheid GeneXpert for detection of <i>C. difficile</i> and: Cepheid GeneXpert



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Faeces	Detection of Rotavirus and Adenovirus Antigens	Membrane immunochromatographic assay using: IIV-SOP-RIDA Quick Rota Adeno and: RIDA quick kit Dipstick combi



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<p>Combined nose & throat swabs* in Virus Transport Medium (VTM), Universal Transport Medium (UTM) or liquid Amies Medium</p> <p>Nasopharyngeal aspirate (NPA)</p> <p>Bronchoalveolar lavage (BAL)*</p> <p>Post-mortem lung swab</p> <p>Induced Sputum</p>	<p><u>Molecular</u></p> <p>Detection of respiratory pathogen nucleic acids:</p> <p>Influenza A&B</p> <p>Rhinovirus</p> <p>Respiratory syncytial virus (RSV)</p> <p>Human metapneumovirus (hMPV)</p> <p>Parainfluenza 1, 2, 3, & 4</p> <p>Adenoviruses</p> <p>Enteroviruses</p> <p><i>Mycoplasma pneumonia</i></p> <p><i>Bordetella</i> spp.</p> <p>SARS-CoV-2 virus RNA (COVID-19); specific gene sequences Orf1a & Orf8 (*marked samples only)</p> <p><i>Legionella pneumophila</i></p> <p><i>Legionella longbeachae</i></p> <p><i>Mycoplasma pneumonia</i></p> <p><i>Chlamydophila pneumonia</i></p> <p><i>Chlamydophila psittaci</i></p> <p><i>Bordetella (B. pertussis & B. holmesii)</i></p> <p><i>Pneumocystis jiroveci</i></p>	<p>Nucleic acid extraction and multiplex tandem PCR using:</p> <p>IIV-SOP-Qiagen QIA Symphony Operations & Maintenance</p> <p>IIV-SOP-Operation of the Aus Diagnostics High Plex System</p> <p>IIV-SOP-Aus Diagnostics Respiratory 24-well assay and:</p> <p>QIA Symphony</p> <p>Aus Diagnostics High Plex System</p>
<p>Bronchoalveolar lavage (BAL)</p> <p>Non-Directed BAL</p> <p>Induced sputum</p>	<p>Detection of SARS-CoV-2 virus RNA (COVID-19); specific gene sequences Orf1a & Orf8</p>	<p>Nucleic acid extraction and multiplex tandem PCR using:</p> <p>IIV-SOP-Qiagen QIA Symphony Operations & Maintenance</p> <p>IIV-SOP-Off Board Lysis for QIA Symphony</p> <p>IIV-SOP-Aus Diagnostics SARS-COV-2 assay and:</p> <p>QIA Symphony</p> <p>Aus Diagnostics High Plex System</p>
<p>Combined nose & throat swabs in Virus Transport Medium (VTM), Universal Transport Medium (UTM) or liquid Amies Medium</p> <p>Bronchoalveolar lavage (BAL)</p>	<p>Detection of SARS-CoV-2 virus RNA (COVID-19); specific gene sequences Orf1a & Orf8</p>	<p>Nucleic acid extraction and multiplex tandem PCR using:</p> <p>IIV-SOP-Qiagen QIA Symphony Operations & Maintenance</p> <p>IIV-SOP-Off Board Lysis for QIA Symphony</p> <p>IIV-SOP-Aus Diagnostics SARS-COV-2 assay and:</p> <p>QIA Symphony</p> <p>Aus Diagnostics High Plex System</p>
<p>Cellular & fluid material contained on Nose/Throat swab</p> <p>Bronchoalveolar lavage (BAL)*</p>	<p>Middle Eastern Respiratory Syndrome Coronavirus (MERS-CoV)</p>	<p>Manual nucleic acid extraction followed by Real Time PCR using:</p> <p>II-SOP-Manual extraction</p> <p>IIV-SOP-Altona MERS-CoV RT-PCR assay and:</p> <p>Altona MERS-CoV assay</p> <p>ABI Fast 7500</p>



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examinations for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions
Whole blood	CMV Viral Load EBV Viral Load	Automated nucleic acid extraction followed by Real Time PCR using: IIV-SOP-Operation of QIAgility IIV-SOP-QIAsymphony SP (Qiagen) Operations & Maintenance Guide IIV-SOP-QIAsymphony Extraction Procedure IIV-SOP-CMV R-GENE IIV-SOP-EMV R-GENE IIV-SOP-BKV R-GENE and: QIAgility QIAsymphony BioMérieux R-GENE assays ABI Fast 7500
Whole Blood Urine	BK Viral Load	
Cerebrospinal fluid (CFS) Urine Bronco alveolar lavage (BAL) Nasopharyngeal aspirate (NPA) Eye swab/Vitreous humour	CMV EBV	Automated nucleic acid extraction followed by Real Time PCR using: IIV-SOP-Operation of QIAgility IIV-SOP-CMV R-GENE IIV-SOP-EMV R-GENE and: QIAgility QIAsymphony BioMérieux R-GENE assays ABI Fast 7500
Lesion swabs Genital swabs Cerebrospinal fluid (CSF)	HSV-1 & 2 <i>Treponema pallidum</i>	IIV-SOP-HSV Syphilis Qualitative real-time PCR



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examinations for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions
Throat swab Eye swab/Vitreous humour Bronco alveolar lavage Nasopharyngeal aspirate Faeces Plasma	Adenovirus	Nucleic acid extraction and real-time PCR amplification (as above) IIV-SOP-Qualitative Adenovirus real-time
Cerebrospinal fluid (CSF) Throat swab Nasal swab Bronco alveolar lavage Nasopharyngeal aspirate Faeces Skin swabs Mucosal swabs	Viral Meningitis panel: Enterovirus Parechovirus	IIV-SOP IIV-SOP-Qualitative Enteroparechovirus real-time PCR
Cerebrospinal fluid (CSF) Skin swabs Mucosal swabs Lesion swabs Eye swab/Vitreous humour	HSV-1 & 2 VZV	IIV-SOP-HSV-1 & 2 Qualitative real-time PCR IIV-SOP-VZV Qualitative real-time PCR
Cerebrospinal fluid (CSF) Vitreous Humour Plasma	JC virus	IIV-SOP-Qualitative JC and Toxoplasma gondii real-time PCR Assay
Cerebrospinal fluid (CSF) Plasma Serum Eye swab/Vitreous humour	<i>Toxoplasma gondii</i>	IIV-SOP-Toxoplasma gondii real-time PCR Assay
Plasma Serum Amniotic Fluid	Parvovirus B19	IIV-SOP-Qualitative parvovirus B19 real time PCR



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Urine Cellular and fluid material contained on self-collected swabs: Rectal Genital Urethral Ulcer 3in1</p>	<p><u>Microbiological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Detection of <i>C. trachomatis</i> LGV-specific DNA</p>	<p>In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions</p> <p>Automated Nucleic acid extraction and 5Plex real-time PCR using: IIV-SOP-QIA-symphony SP (Qiagen) Operations & Maintenance Guide IIV-SOP-QIA-symphony Extraction Procedure IIV-SOP-Rotor-gene Q Real-time PCR System Operations and Maintenance IIV-SOP-LGV PCR QIA-symphony Rotor-gene Q</p> <p>Target capture and transcription mediated amplification (TMA): IIV-SOP-Gen-Probe Panther Operation & Maintenance IIV-SOP-Hologic Aptima Assays and: Hologic Gen-Probe Panther system</p>
<p>Urine Cellular and fluid material contained in cervical, eye, high-vaginal, rectal and throat swabs</p>	<p>Detection of ribosomal RNA from:</p> <p><i>Chlamydia trachomatis</i> <i>Neisseria gonorrhoeae</i> <i>N. gonorrhoeae</i> (confirmation)</p>	<p>IIV-SOP-Hologic Aptima Assays</p>
<p>Urine Cellular and fluid material contained on cervical, high-vaginal &, rectal swabs</p>	<p><i>Trichomonas vaginalis</i> <i>Mycoplasma genitalium</i></p>	<p>IIV-SOP Hologic Aptima Assays</p>



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United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW13 3HR, UK

Viapath Analytics LLP

Issue No: 006 Issue date: 28 September 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Plasma Cerebrospinal fluid (CSF)</p>	<p><u>Microbiological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>HIV Genotyping</p>	<p>In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) and incorporating relevant manufacturers' instructions</p> <p>Nucleic acid extraction, gene sequencing and analysis using: IIV-SOP-QIAsymphony SP (Qiagen) Operations & Maintenance Guide IIV-SOP-QIAsymphony Extraction Procedure IIV-SOP-Generic Genotyping Sequence Analysis, Reporting & QA and: QIAsymphony ABI GeneAmp PCR System 9700 Thermocycler ABI 3130XL genetic analyser</p>
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