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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES	Extraction of DNA, RNA from bacterial, fungal, parasitic, viral and human genetics targets	In House documented methods incorporating manufacturers' instructions, where relevant Sample pretreatment Manual extraction S-14 High Pure Column manual extraction S-1541 Nucleic acid extraction using QiaSymphony robot S- 392 Kingfisher Flex and Apex extraction system, S-1642 Hamilton MicroLab StarLET S-1967
	Amplification and visualisation of specific amplicon from bacterial, fungal, parasitic, viral and human genetics targets	In House documented methods incorporating manufacturers' instructions, where relevant ROCHE LC480 M-879 Hamilton MicroLab StarLET S-1967 S-968, M-1905 PeqSTAR M-971 Thermocyclers: Biometra Trio M-1224 MJ-200 M-1209 MJ-100 M-1210 Biometra TProfessional TRIO M-2586 Biometra TOne M-2583 Biomolecular Sciences Magnetic induction cycler (MIC)– M-1243 SimpliAMP thermal cycler M-1242 Eppendorf Mastercycler Pro Vapo Protect M-2585 Eppendorf Mastercycler X50M-1630 PTC-100 M-970 PTC-200 M-1209

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular bacteriology examination activities for the purpose of clinical diagnosis	Analysis and interpretation of real-time pathogen PCR experiments S-560 In House documented methods incorporating manufacturers' instructions, where relevant
Any sample preferably from a sterile site	Bacterial 16S rRNA gene detection	In-house, single round assay performed on real time PCR BioSciences MIC (M-1243) S-49 Nested PCR assay performed on Block thermal cyclers (M-1224, M-2586, M-2583) and visualisation on an agarose gel or PCR with intercalating dye in the second round and visualisation on ROCHE LC 480 using procedure:
EDTA whole blood, CSF, tissue	Borrelia genus DNA	S-1222
Nasopharyngeal swab, NPA, BAL, sputum	Chlamydia pneumoniae DNA	S-1197
CSF, EDTA whole blood, urine	Leptospira interrogans DNA	S-1227
CSF, EDTA whole blood,	Listeria monocytogenes DNA	S-1228
Sputum, tissue, CSF, BAL, NPA	Mycobacterium avium complex / TB complex DNA	S-1229
Positive Neisseria meningitides samples	Neisseria meningitidis typing	S-2260, S-1231
CSF, whole blood, respiratory specimens	Streptococcus pneumoniae DNA	S-1193
CSF, genital swab	Treponema pallidum DNA	S-947
CSF and almost any cellular material including whole blood	Tropheryma whippelii DNA	S-1239

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular bacteriology examination activities for the purpose of clinical diagnosis (cont'd)	In House documented methods incorporating manufacturers' instructions, where relevant Semi-nested PCR assay performed on block thermal cyclers (M-1224, M-2586, M2583) and visualisation on an agarose gel or PCR with intercalating dye in the second round and visualisation on ROCHE LC 480 using procedures:
NPA and perinasal and nasopharyngeal swabs	Bordetella pertussis DNA	S-1186
Nasopharyngeal swab, BAL	Chlamydia psittaci DNA	S-1169
CSF, EDTA whole blood	Escherichia coli DNA	S-1332
Genital Swab	Haemophilus ducreyi DNA	S-943
NPA, BAL, EDTA whole blood, sputum, swabs and ET secretions	Mycoplasma pneumoniae DNA	S-1199 Semi-nested PCR assay performed on block thermal cyclers (M-1224, M-2586, M-2583) and visualisation on agarose gel and subsequent sequencing for identification of positives using procedures:
Sputum, tissue, CSF, BAL	Mycobacterium genus DNA	S-1230 and S-1657
CSF, EDTA whole blood, tissue	Mycoplasma genus DNA	S-1152 and S-1776

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular bacteriology examination activities for the purpose of clinical diagnosis (cont'd)	In House documented methods incorporating manufacturers' instructions, where relevant Semi-nested PCR assay using block thermal cyclers (M-1224, M-2586, M-2583) in the first round and real time PCR machine ROCHE LC480 with intercalating dye in the second round using procedures:
Eye swab, throat swab, For genitourinary: Female: Endocervical, vaginal or rectal swab, 'Thin prep' endocervical cellular specimens. Male: Urethral swab, first pass urine, rectal swab Urine, genital swab, semen	Neisseria gonorrhoeae DNA	S-946
Urine, genital swab, NPA, thin preps, semen	Ureaplasma urealyticuum and Ureaplasma parvum DNA	S-949 Nested PCR assay performed on block thermal cyclers (M-1224, M-2586, M-2583), visualisation on an agarose gel and subsequent sequencing for identification of positives, using procedures:
EDTA whole blood, tissue, vitreous fluid, aqueous fluid, pus	Bartonella henselae/qunitana DNA	S-1523
EDTA whole blood, corneal scrape, eye swab and contact lens fluid	Pseudomonas aeruginosa	S-1365

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular bacteriology examination activities for the purpose of clinical diagnosis (cont'd)	In House documented methods incorporating manufacturers' instructions, where relevant Semi nested PCR assay performed on block thermal cyclers (M-1224, M-2586, M-2583) and visualisation on MICs (M-1243) using procedure:
CSF, joint fluid, pleural fluid, tissue, eye swab, vitreous fluid and aqueous fluid	Staphylococcus genus DNA	S-1233
CSF, eye samples and tissue	Cutibacterium acnes	S-1830 Single round PCR assay performed on block thermal cyclers (M-1224, M-2586, M-2583) and visualisation on agarose gel using procedures:
EDTA whole blood, CSF	Brucella genus DNA	S-1474
EDTA Whole blood, BAL, tissue	Coxiella burnetti DNA	S -951
CSF, EDTA whole blood, tissue, joint fluid, pleural fluid	Group A Streptococcus DNA	S-1225, S-1868,
CSF, EDTA whole blood, tissue	Group B Streptococcus DNA	S-1225, S-1870
CSF, EDTA whole blood,tissue	Haemophilus influenzae DNA	S-1226 Single round PCR assay performed on block thermal cyclers (M-1224, M-2586, M-2583, M-1209, M-1210) and visualisation on agarose gel using procedures
Genital swab	Trichomonas vaginalis DNA	S-948

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular bacteriology examination activities for the purpose of clinical diagnosis (cont'd)	In House documented methods incorporating manufacturers' instructions, where relevant Single round assay using real time PCR on ROCHE LC480s using probe-based technology using procedures:
EDTA whole blood and blood culture	Capnocytophaga canimorsus DNA	S-2507
Swabs (eye, throat, endocervical, vaginal, rectal, urethral), urine and thin preps	Chlamydia trachomatis DNA	S-2553
CSF, EDTA whole blood	Listeria monocytogenes DNA	S-2500
Female: Endocervical vaginal or rectal swab, rectal tissue / biopsy, lymph biopsy, throat swab. Male: Genital swab, rectal swab, throat swab, first catch urine, rectal tissue / biopsy, lymph biopsy	Lymphogranuloma venereum	S-1275
Urine, genital swab	Mycoplasma genitalium DNA	S-1539
CSF, EDTA whole blood, nasopharyngeal swabs, joint fluid	Neisseria meningitidis DNA	S-1734

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular bacteriology examination activities for the purpose of clinical diagnosis (cont'd)	In House documented methods incorporating manufacturers' instructions, where relevant Nested PCR assay performed on block thermal cyclers (M-1224, M-2586, M-2583) and visualisation on agarose gel PCR with intercalating dye in the second round and visualisation on ROCHE LC 480 using procedures:
EDTA whole blood, BAL, sputum, corneal scrape	Aspergillus spp. DNA	S-1236
CSF, EDTA whole blood, amniotic fluid, vitreous and aqueous fluid	Toxoplasma gondii DNA	S-1123
BAL, NPA, sputum, whole blood	Pneumocystis jirovecii DNA	S-1232
Swab, tissue for genital samples, female: endocervical swab sent in VTM or endocervical cellular specimens. Male: penile swab into VTM or fresh biopsy tissue	Humma Papillomavirus DNA	Nested PCR assay using block thermal cyclers and visualisation on an agarose gel

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular fungal/parasite examination activities for the purpose of clinical diagnosis	In House documented methods incorporating manufacturers' instructions, where relevant Single round PCR assay utilising block thermal cyclers (M-1224, M-2586, M-2583, M-970, M-1209) and visualisation on agarose gel using procedures:
EDTA whole blood CSF, eye fluid, corneal scrape, eye swabs	Candida albicans DNA	S-1237 Single round PCR assay utilising block thermal cyclers (M-1224, M-2586, M-2583, M-1209, M-970) and visualisation on agarose gel using procedures:
CSF, EDTA whole blood	Cryptococcus neoformans DNA	S -1201
Any (inc. fixed tissue) preferably from normally sterile sites	Pan-Fungal 18S rRNA gene detection	S-1001 Single round assay using real time PCR on ROCHE LC 480s using probe-based technology and procedures:
Corneal scrape, swab, contact lens solution, CSF	Acanthamoeba spp.DNA	S-1649

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular virology examination activities for the purpose of clinical diagnosis	In House documented methods incorporating manufacturers' instructions, where relevant Single round assay using real time PCR ROCHE on LC480s using probe-based technology and procedures:
CSF, EDTA whole blood, urine, serum/EDTA plasma, saliva. Respiratory specimen - BAL preferred. Pregnancy - EDTA whole blood, amniotic fluid, serum/plasma	Cytomegalovirus DNA	S-937
CSF, EDTA whole blood, urine, serum/EDTA plasma,	Cytomegalovirus DNA quantitation	S-937
CSF, swab, stool, tissue, serum, plasma, EDTA/citrated whole blood, NPA, Pericardial Fluid	Enterovirus/Parechovirus RNA	S-952
EDTA/ whole blood, CSF, serum, plasma,	Epstein Barr Virus DNA	S-937
EDTA whole blood, CSF, serum, plasma	Epstein Barr Virus DNA quantitation	S-937
EDTA whole blood, amniotic fluid, serum/plasma, CSF, bone marrow, tissue samples	Parvovirus B19 DNA	S-2363
BAL, NPA, swabs	Rhinovirus RNA	S-2433
EDTA whole blood preferred, EDTA serum/plasma	HIV-1 Proviral LTR, env, gag and pol DNA/RNA	S-2611
Whole blood, serum/plasma, CSF	HIV-2 proviral LTR and pol DNA/RNA	S-2607
Serum/plasma	Hepatitis B virus DNA detection and quantitation	S-1641
Serum/plasma	Hepatitis B virus DNA detection (duplex assay)	S-2922
Serum/plasma, CSF, Stool, whole blood	Hepatitis E virus RNA detection	S-1076
Serum/plasma, CSF, whole blood	Hepatitis E virus RNA quantitation	S-1076

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular virology examination activities for the purpose of clinical diagnosis (cont'd)	In House documented methods incorporating manufacturers' instructions, where relevant Single round assay using real time PCR ROCHE on LC480s using probe-based technology and procedures:
CSF, AC tap, aqueous/vitreous humour, EDTA/citrated whole blood, corneal scrape, vesicle fluid, skin/eye/vesicle/lesion swab, tissue/biopsies, genital GUM swabs (vulvo-vaginal, penis). Respiratory specimens (BAL, NPA)	Herpes Simplex virus DNA	S-1379
Performed routinely on HSV samples	Herpes Simplex virus types I & II typing	S-1468
EDTA whole blood, CSF, serum, plasma, urine	Poly BK virus detection and quantification	S-1894
Vitreous fluid, eye fluid serum, blood, plasma, urine, bronchial washings, NPA swab, (nose, throat eye skin,) CSF, pericardial, fluid, bone marrow,: For quantification: EDTA whole blood, CSF, plasma urine	Adenovirus DNA detection and quantification	S-939
EDTA whole blood, (CSF in encephalitis), bone marrow, plasma	Human Herpesvirus 6A, 6B DNA detection and quantitation	S-1612
EDTA whole blood, bone marrow, CSF, plasma	Human Herpesvirus 7 DNA detection and quantitation	S-1612
EDTA whole blood, CSF, plasma, serum	Human Herpesvirus 8 DNA detection and quantitation	S-2134

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular virology examination activities for the purpose of clinical diagnosis (cont'd)	In House documented methods incorporating manufacturers' instructions, where relevant Single round assay using real time PCR on ROCHE LC480s using probe-based technology using procedures:
Blood, skin swabs, throat swabs	Mpox virus DNA	S-2273
CSF, swab, stool, tissue, serum, plasma, EDTA/citrated whole blood, NPA, pericardial fluid	Parechovirus RNA	S-952
EDTA whole blood, CSF, urine	Polyoma JC virus DNA and quantitation	S-908
CSF, AC tap, aqueous/vitreous humour, EDTA/citrated whole blood, corneal scrape, vesicle fluid, skin/eye/vesicle/lesion swab, tissue/biopsies, genital GUM swabs (vulvo-vaginal, penis). Respiratory specimens (BAL, NPA)	Varicella Zoster virus DNA	S-1379

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular virology examination activities for the purpose of clinical diagnosis (cont'd)	In House documented methods incorporating manufacturers' instructions, where relevant Single round assay using real time PCR ROCHE LC480s & LC96s and probe-based technology and procedures:
CSF, serum, plasma and whole blood	HTLV-1 RNA	S-2432
Whole blood, CSF, plasma, serum, nose and throat swabs, skin swabs and urine	Measles virus RNA	S-2378
Whole blood, CSF, plasma, serum, nose and throat swabs, skin swabs and urine	Mumps virus RNA	S-2382
Whole blood, serum, nose and throat swabs, skin swabs, urine, aqueous humour, amniotic fluid, CSF, plasma and tissue	Rubella virus RNA	S-2402

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular virology examination activities for the purpose of clinical diagnosis (cont'd)	In House documented methods incorporating manufacturers' instructions, where relevant
Any upper / lower respiratory sample	Respiratory Virus Screen comprising: Bocavirus DNA Coronavirus 229E, HKU1, NL63 or OC43 RNA Human metapneumovirus RNA Influenza A virus RNA Influenza B virus RNA Parainfluenza 1,2,3 and 4 virus RNA Respiratory Syncytial Virus RNA Rhinovirus/Enterovirus RNA Adenovirus DNA Chlamydia pneumoniae DNA Legionella pneumophila Mycoplasma pneumoniae DNA	Luminex assay - Single round thermal block PCR (M-1630, M-2585), followed by analysis on the MAGPIX (M-1160) using procedure S-1147 (Note: Enterovirus positives are differentiated on the Enterovirus/PV assay S-952).

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular virology examination activities for the purpose of diagnosis (cont'd)	In House documented methods incorporating manufacturers' instructions, where relevant
Swabs, NPA, BAL	Detection of RNA from SARS-CoV-2 specifically the N1 region of the N gene	Extraction of RNA using Kingfisher extraction platform with PROMEGA chemistry followed by real-time PCR amplification of viral RNA using probe-based technology on the Roche LC480 platform S-1851
Nose and Throat swabs	Detection of RNA from SARS-CoV-2 specifically the N1 region of the N gene	Heat extraction of viral RNA using calibrated thermal blocks followed by real-time PCR amplification or viral RNA using probe-based technology on the Roche LC480 or LC96 platform S-1886 Altona Realstar kit using single round RT-PCR using probe-based technology and visualisation on ROCHE LC480s using procedures:
Serum. plasma	Hepatitis D virus detection and quantitation	S-1959
CSF, urine, plasma, EDTA whole blood	West Nile Fever virus RNA	S-1905
Genital swabs and endocervical cellular specimens	Human Papillomavirus DNA genotyping (High risk)	Liferiver HPV genotyping kit M-1189 utilising probe technology on LC 480s SOP S-1536
Serum / plasma	Hepatitis C virus RNA detection and quantitation	Roche COBAS 5800 (M-2722) HCV test kit using procedure S-2348
EDTA plasma/CSF	HIV-1 RNA quantitation	Roche COBAS 5800 (M-2722) HIV test kit using procedure S-2351

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Serological analysis for the purpose of clinical diagnosis	Detection of antibodies and antigens to various viral markers using CE marked kits or inhouse protocols developed in accordance with manufacturers instructions ROCHE COBAS Electrochemiluminescence immunoassay 'ECLIA' performed on COBAS E411. Using procedure S-474
Serum preferred or Na-heparin, K3-EDTA, sodium citrate plasma	Hepatitis B core antibody	Antibodies to Hepatitis B core antigen
Serum preferred or Na-heparin, K3-EDTA, sodium citrate plasma	Hepatitis B e antibody	Antibodies to Hepatitis B E Antigen
Serum preferred or Na-heparin, K3-EDTA, sodium citrate plasma	Hepatitis B e antigen	Detection of Hepatitis B E Antigen M-492
Serum preferred or K2/K3EDTA plasma	Hepatitis B surface antibody	Antibodies to Hepatitis B surface antigen M-491
Serum preferred or Li-heparin, Na-citrate, K2/K3-EDTA, CPDA, CPD, CP2D, ACD, citrate plasma.	Hepatitis B surface antigen	Detection of Hepatitis B surface antigen M-493
Serum preferred or Li-heparin, Na-heparin, K2-EDTA, citrate plasma	Hepatitis B surface antigen quantitation	Quantitation of Hepatitis B surface antigen M-578
Serum preferred or Li-heparin, K2/K3-EDTA, ACD, CPD, CP2D, Na-heparin, Na-citrate plasma	Hepatitis C antibody	Antibodies to Hepatitis C virus M-488
Serum preferred or Li-heparin, K2/K3-EDTA, Na-heparin, Na-citrate, CPDA, CPD, CP2D, ACD plasma	HIV I & II antibody and p24 antigen	Detection of HIV-1 antigen and total antibodies to HIV-1 and HIV-2 M-497

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Serological analysis for the purpose of clinical diagnosis (cont'd)	In House method, developed in accordance with manufacturers instructions Line Immunoassay using the enzyme immune assay (EIA) principle
Serum preferred or Li-heparin, citrate or EDTA plasma, saliva	Hepatitis C antibody (RIBA)	INNO-LIA HCV score kit M-1087 using procedure S-23.
Serum preferred or Li-heparin, citrate or EDTA plasma, saliva	HIV I & II antibody (LIA)	INNO-LIA HIV I/II score M-1088 using procedure S-122.
Saliva	HIV I & II antibody (LIA) - saliva	INNO-LIA HIV I/II score M-1088 using procedure S-122. ELISA assays performed in accordance with the manufacturer's instructions using procedures:
Serum preferred or EDTA, citrate plasma	HTLV I & II antibody	Murex HTLV I and II M-239. using procedure S-2781
Serum preferred or citrate plasma	Mumps IgG antibody	Novatec NovaLisa mumps virus IgG ELISA M-244. Using procedure S-2782
BAL and serum	Aspergillus (Galactomannan) antigen	PlateLIA Aspergillus Antigen kit using M-1745, procedure S-1775

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Dideoxynucleotide sequencing examination activities for the characterisation of phylogenetics and drug resistance mutations with bacterial, fungal and viral samples	Dideoxynucleotide sequencing performed on ABI 3500 xL using in-house methodology Sequencing of PCR products using the 3500xL genetic analysers S-1889 Sequence data analysis for Phylogenetic typing S-1809 Eppendorf mastercycler X50 M-1630 SimpliAMP thermalcycler M-1242
Any positive product produced in 16S rRNA bacteria assay	16S rRNA bacterial gene sequencing	Single round PCR products produced on Biosciences MIC S-49 Positives subject to sequencing using procedure S-1758
Any positive product produced in the Aspergillus detection assay	Aspergillus spp sequencing	Nested PCR assay performed on block thermal cyclers (M-1224, M2586, M-2583) followed by sequencing of positives using procedure S-2996
Any positive product produced	Neisseria gonorrhoeae sequencing	Automated pipeline analysis for NG PCR products using procedure S-1811
EDTA/citrated whole blood, EDTA plasma	Cytomegalovirus (UL54/UL97) ganciclovir, foscarnet or cidofovir resistance	Single round PCR assay performed on thermal cycler blocks (M-1224, M-2586) in which positives are subject to sequencing, using procedures S-1445, S-1546
EDTA/citrated whole blood, EDTA plasma	Cytomegalovirus (UL56/UL89) letermovir resistance	Nested PCR assay using thermal cyclers (M-1224, M-2586) followed by sequencing of positives using procedures S-2047, S-2069

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Dideoxynucleotide sequencing examination activities for the characterisation of phylogenetics and drug resistance mutations with bacterial, fungal and viral samples (cont'd)	Dideoxynucleotide sequencing performed on ABI 3500 xL using in-house methodology
Serum/plasma	Hepatitis C genotyping	Nested assay performed on thermal cycler blocks (M-1224, M-2586) and visualised on an agarose gel, in which positives are subject to sequencing using procedures: S-1437, S-1841.
Plasma	*HIV-1* RNA drug resistance	S-2674 Nested PCR assay performed on block thermal cyclers and visualisation on an agarose gel
Plasma	HIV-1 RNA Integrase drug resistance	S-2677 Nested PCR assay performed on block thermal cyclers and visualisation on an agarose gel
Any positive Herpes Simplex type 1 sample	Herpes Simplex type 1 Acyclovir drug resistance	Nested assay performed on thermal cycler blocks (M-1224, M-2586), in which positives are subject to sequencing, using procedures: S-1336, S-1784
EDTA whole blood, plasma and serum	Cytomegalovirus (UL97) Maribavir resistance	Semi-nested PCR assay using block thermal cyclers (M-2586) in which positives are subject to sequencing using procedure S-1955, S-1546
EDTA plasma, serum	Hepatitis B genotyping and drug resistance	Semi-nested PCR assay using thermal cyclers (M-2586) and visualisation on agarose gel, positives are subject to sequencing using procedure S-1678 S-1570
Positive Human Papillomavirus DNA samples	Human Papillomavirus Genotyping	S-1678

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Dideoxynucleotide sequencing examination activities for the characterisation of phylogenetics and drug resistance mutations with bacterial, fungal and viral samples (cont'd)	Dideoxynucleotide sequencing performed on ABI 3500 xL using in-house methodology
Any positive product produced in 18srRNA fungal assay	18S rRNA fungal gene sequencing	Single round PCR assay performed on thermal cycler blocks (M-1630, M-1242) in which positives are subject to sequencing using procedures S-1001, S-1583 Single round PCR using thermal cyclers (M-1224, M-2586, M2583, M-1209, M-970) with visualisation on an agarose gel. Positives are subject to sequencing using procedures:
First catch urine, vaginal swab	Mycoplasma genitalium macrolide resistance	S-1625, S-1626
First catch urine, vaginal swab	Mycoplasma genitalium fluoroquinolone resistance	S-2067, S-2068

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Genomics analysis for the purpose of clinical diagnosis:	In House documented methods incorporating manufacturers' instructions, where relevant Next Generation Sequencing (NGS) on Illumina MiSeq and NGS library preparation of drug resistance assays using the QIAseq FX kit S-1789 Bioinformatic data analysis using in-house bioinformatics pipeline (Amplicon Analysis Suite AAS) S–2489 and S-2604
EDTA/Citrated whole blood plasma	CMV Letermovir Drug Resistance (UL56 and UL89	S-2069
EDTA/Citrated whole blood plasma	CMV Ganciclovir, maribavir, foscarnet and cidofovir drug resistance (UL54 and UL97)	S-1546
HSV-1 positive samples, inc. CSF, EDTA whole blood, plasma and swabs	HSV-1 Acyclovir drug resistance (UL23 and UL30)	S-1784
Plasma, serum	Hepatitis B genotyping and drug resistance	S-1555
Plasma, serum	HIV-1 Protease/Reverse Transcriptase (PRRT) and Integrase (INT) drug resistance	S-1765
Sputum, BAL, tissue, CSF	Rifampicin drug resistance mutation analysis	S-1556

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Human genetic mutation detection for clinical diagnostic purposes	In House documented methods incorporating manufacturers' instructions, where relevant Real-time PCR and melt curve analysis using probe-based technology on ROCHE LC480 II using CE marked TIB MOL BIOL kit using procedures:
EDTA or citrate whole blood specimens	Detection of Factor V Leiden and Factor II (Prothrombin mutations)	S-1971
EDTA or citrate whole blood specimens	Haemochromatosis HFE H63D S65C C282Y gene, mutations; c.845G>A p.(Cys282Tyr), c.187C>G p.(His63Asp) and c.193A>T p.(Ser65Cys	S-2292
EDTA, citrated whole blood	Human genetics factor V/Pro-thrombin assay Human genetic profiling	ABI 3500xL genetic analyser S-2868 In House documented methods incorporating manufacturers' instructions, where relevant High Pure Column manual extraction S-1541 SimpliAMP M-1242 Eppendorf Mastercycler X50 M-1630
Cheek swab, EDTA/citrated whole blood, tissue, serum, fixed tissue (least preferred sample), personal items (hairbrush, comb, razor), bone	Human identification DNA Profiling	Generation of Human STR profiles using Promega PowerPlex 16HS and the ABI 3500xL genetic analyser S-218 Genescan data analysis S-219
END		