


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 8688 Accredited to ISO 15189:2012	Synnovis Analytics LLP	
	Issue No: 027 Issue date: 23 December 2024	
	Genetics Centre 5 th Floor Tower Wing Guy's Hospital London SE1 9RT	Contact: Ashley Kilner Tel: +44 (0)207 188 7373 Email: Ashley.kilner@nhs.net Website: www.synnovis.co.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Molecular Genetics 5 th Floor Tower Wing & 7 th Floor Borough Wing (analysis only) Guy's Hospital London SE1 9RT	Ashley Kilner (contact details above) Monogenics, Prenatal and Reproductive Genetics and Developmental Disorder testing for a range of genetic disorders.	GL
Pre-implantation Genetic Diagnosis (PGD) Laboratory 11 th Floor Tower Wing Guy's Hospital London SE1 9RT	Ashely Kilner (contact details above) Molecular Genetics testing of pre-implantation embryos to identify familial mutations or abnormalities arising from parental chromosome rearrangements	PGD
Biochemical Genetics Laboratory 5 th Floor Tower Wing Guy's Hospital London SE1 9RT	Ashley Kilner (contact details above) Enzymology, metabolite analysis and molecular genetic testing for a range of genetic biochemical disorders	BG
Molecular Oncology Unit 4 th Floor Southwark Wing Guy's Hospital London SE1 9RT	Ashley Kilner (contact details above) Molecular oncology testing	MOU
Epidermolysis Bullosa Laboratory St. John's Institute of Dermatology Guy's Hospital Great Maze Pond London SE1 9RT	Ashley Kilner (contact details above) Frozen Sections Immunofluorescence	GEB



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS	<u>Molecular Genetics</u>		
Blood Saliva Paraffin embedded tissue Buccal cells Dried bloodspots Muscle	Detection of nucleic acid sequence variants and/or copy number changes for the purpose of clinical diagnosis	Documented in- house methods for sequencing, genotyping or electrophoresis supported by extraction and amplification as listed below. <u>DNA Extraction</u> In-house procedures: LP-D-15 LP-D-24 LP-D-26 LP-D-29 LP-D-164 LP-D-165 LP-D-234 LP-D-505 using commercial kits and Chemagen 360-D automated DNA extractor	GL
Paraffin embedded tissue samples		<u>DNA Extraction</u> <u>In house procedures:</u> <u>LP-D-497</u> <u>Using Qiagen EZ1 and EZ2 tissue DNA extraction kits and Qiagen EZ1 Advanced XL extraction platform</u>	GL
Hair roots Muscle		<u>RNA Extraction</u> In-house procedures: LP-D-165 using commercial kits and manual extraction	GL
Blood Bone marrow FFPE tissue Cell suspension (peripheral blood and bone marrow cells stored in RLT buffer)		<u>Nucelic Acid Extraction</u> <u>In house procedures:</u> <u>LP-MO-63</u> <u>Using commercial kits and QIAsymphony semi-automated extractor</u>	GL
Genomic DNA extracted in-house from the sample types listed above or received as primary sample type from external source Dried bloodspots		<u>Multiple Displacement Amplification</u> Whole genome amplification of low copy number of cells using in-house procedures: LP-D-53 in conjunction with manufacturer's instructions using: MJ Research Dyad thermal cycler	GL



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>DNA/RNA extracted in-house from the sample types listed above or received as primary sample type from external source</p>	<p><u>Molecular Genetics (cont'd)</u></p> <p>Detection of nucleic acid sequence variants and/or copy number changes as indicated for the purpose of clinical diagnosis. Name of disease with name of analysed gene(s) in brackets:</p>	<p><u>PCR amplification (inc. Quantitative fluorescent (QF)-PCR & Multiplex Ligation-Dependent Amplification (MLPA)) of DNA/RNA, Capillary electrophoresis, Sanger sequencing and genotyping</u></p> <p>Using In-house procedures:</p> <p>LP-D-2 LP-D-3 LP-D-21 LP-D-23 LP-D-25 LP-D-32 LP-D-51 LP-D-105 LP-D-163 LP-D-191 LP-D-194 LP-D-258 LP-D-530 and Automated or manual methods in conjunction with manufacturer's instructions using: Gene Sequence Manager software NanoDrop® ND-1000 Spectrophotometer M2 Plate reader Hamilton STARlet robotBiorad Tetrad 2 MJ Research Dyad thermal cycler Nanodrop II nanodispenser Beckman Coulter Biomek NX ABI 3730 DNA Analyser</p>	GL
	<p>Prader-Willi Syndrome and Angelman Syndrome</p>	<p><u>MS-MLPA Laboratory Procedure LP-D-543</u></p>	GL



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>DNA/RNA extracted in-house from the sample types listed above or received as primary sample type from external source</p>	<p><u>Molecular Genetics (cont'd)</u></p> <p>Detection of nucleic acid sequence variants and/or copy number changes as indicated for the purpose of clinical diagnosis. Name of disease with name of analysed gene(s) in brackets: (cont'd)</p> <p>Breast/ovarian cancer (R208)</p> <p>Congenital muscular dystrophy (R79))</p>	<p><u>PCR amplification (inc. Quantitative fluorescent (QF)-PCR & Multiplex Ligation-Dependent Amplification (MLPA)) of DNA/RNA, Capillary electrophoresis, Sanger sequencing and genotyping</u></p> <p>(cont'd)</p>	<p>GL</p>



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>DNA/RNA extracted in-house from the sample types listed above or received as primary sample type from external source</p>	<p><u>Molecular Genetics (cont'd)</u></p> <p>Detection of nucleic acid sequence variants and/or copy number changes as indicated for the purpose of clinical diagnosis. Name of disease with name of analysed gene(s) in brackets: (cont'd)</p> <p>Congenital myopathy (R81)(</p> <p>Cystic fibrosis (CFTR common variants)</p> <p>Direct Test (confirmation of Whole Exome research results e.g. DDD project – varied genes)</p> <p>Duchenne/Becker muscular dystrophy (dystrophin)</p>	<p><u>PCR amplification (inc. Quantitative fluorescent (QF)-PCR & Multiplex Ligation-Dependent Amplification (MLPA)) of DNA/RNA, Capillary electrophoresis, Sanger sequencing and genotyping</u></p> <p>(cont'd)</p>	<p>GL</p>



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>DNA/RNA extracted in-house from the sample types listed above or received as primary sample type from external source</p>	<p><u>Molecular Genetics (cont'd)</u></p> <p>Detection of nucleic acid sequence variants and/or copy number changes as indicated for the purpose of clinical diagnosis. Name of disease with name of analysed gene(s) in brackets: (cont'd)</p> <p>Familial hypercholesterolaemia R135(</p> <p>Fanconi anaemia R229 (</p> <p>Fragile X syndrome (FMR1)</p> <p>Huntington disease (HTT)</p>	<p><u>PCR amplification (inc. Quantitative fluorescent (QF)-PCR & Multiplex Ligation-Dependent Amplification (MLPA)) of DNA/RNA, Capillary electrophoresis, Sanger sequencing and genotyping</u></p> <p>(cont'd)</p>	<p>GL</p>



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>DNA/RNA extracted in-house from the sample types listed above or received as primary sample type from external source</p>	<p><u>Molecular Genetics (cont'd)</u></p> <p>Detection of nucleic acid sequence variants and/or copy number changes as indicated for the purpose of clinical diagnosis. Name of disease with name of analysed gene(s) in brackets: (cont'd)</p> <p>Lynch syndrome (MSI analysis)</p> <p>Melanoma (BRAF exon 15)</p> <p>Nucleotide Excision Repair disease R227(</p>	<p><u>PCR amplification (inc. Quantitative fluorescent (QF)-PCR & Multiplex Ligation-Dependent Amplification (MLPA)) of DNA/RNA, Capillary electrophoresis, Sanger sequencing and genotyping</u></p> <p>(cont'd)</p>	<p>GL</p>



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>DNA/RNA extracted in-house from the sample types listed above or received as primary sample type from external source</p>	<p><u>Molecular Genetics (cont'd)</u></p> <p>Detection of nucleic acid sequence variants and/or copy number changes as indicated for the purpose of clinical diagnosis. Name of disease with name of analysed gene(s) in brackets: (cont'd)</p> <p>Skeletal dysplasia; Stickler, Achondrogenesis type II and hypochondrogenesis, SEDC R24(Spondyloepiphyseal dysplasia congenital) and Kniest dysplasia, Achondroplasia, Thanatophoric dysplasia (FGFR3)</p> <p>Spinal muscular atrophy (SMN1)</p>	<p><u>PCR amplification (inc. Quantitative fluorescent (QF)-PCR & Multiplex Ligation-Dependent Amplification (MLPA)) of DNA/RNA, Capillary electrophoresis, Sanger sequencing and genotyping (cont'd)</u></p>	GL
<p>Genomic DNA extracted in-house from the sample types listed above or received as primary sample type from external source</p>	<p><u>Rare diseases and oncology</u></p>	<p><u>Next Generation Sequencing:</u> <u>DNA normalisation</u> <u>Data analysis of samples</u> <u>In-house procedures:</u> <u>LP-D-650</u> <u>LP-D-433</u> <u>LP-D-558</u></p> <p><u>In conjunction with manufacturer's instructions using:</u> <u>Hamilton Athena liquid handling robot</u> <u>Illumina NextSeq 550</u> <u>Congenica DSS (data analysis)</u></p>	GL



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Molecular Genetics (cont'd)</u>		
DNA/RNA extracted in-house from the sample types listed above or received as primary sample type from external source	Detection of nucleic acid sequence variants and/or copy number changes as indicated for the purpose of clinical diagnosis. Name of disease with name of analysed gene(s) in brackets: (cont'd)	<u>PCR amplification (inc. Quantitative fluorescent (QF)-PCR & Multiplex Ligation-Dependent Amplification (MLPA)) of DNA/RNA, Capillary electrophoresis, Sanger sequencing and genotyping</u> (cont'd)	GL
Genomic DNA extracted in-house from the sample types listed above or received as primary sample type from external source	X-inactivation Detection of nucleic acid sequence variants for the purpose of clinical diagnosis. Name of disease with name of analysed gene(s) in brackets: Combined panel for: Familial hypercholesterolaemia (VCP1) Breast/ovarian cancer (VCP2p1)	<u>Next Generation Sequencing and data analysis</u> In-house procedures: 59 LP-D-567 In conjunction with manufacturer's instructions using: Twist Human Core Exome EF Multiplex kit Qubit fluorometer TWIST Bravo automated preparation NGS TWIST robot Life Tech Veriti Model# 9902 Savant Speed Vac Centrifuge Agilent TapeStation 2200 Illumina NextSeq 550 Congenica DSS (data analysis)	GL



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Genomic DNA extracted in-house from the sample types listed above or received as primary sample type from external source</p>	<p><u>Molecular Genetics (cont'd)</u></p> <p>Detection of nucleic acid sequence variants for the purpose of clinical diagnosis. Name of disease with name of analysed gene(s) in brackets: (cont'd)</p> <p>CM/CMD, DMD and NERD (VCP3)</p> <p>Congenital myopathy / Congenital muscular dystrophy (COL6A1, COL6A2, COL6A3, COL12A1, FKRP, FKTN, LAMA2, LARGE1, POMGNT1, POMGNT2 (GTDC2), POMT1, POMT2, COL4A1, COL4A2, DAG1, DPM1, DPM2, DPM3, DOLK, ISPD, GMPPB, B3GALNT2, CHKB, PLEC, SIL1, B4GAT1 (B3GNT1), POMK (SGK196), ITGA7, THEM5, MICU1, ACTA1, BIN1, CFL2, DNM2, KBTBD13, MTM1, MYH2, MYH3, MYH7, MYH8, NEB, RYR1, SEPN1, TNNI2, TNNT1, TNNT3, TPM2, TPM3, ORAI1, STIM1, ECEL1, CCDC78, KLHL41 (KBTBD10), KLHL40 (KBTBD5), MYBPC1, PIEZO2, ZC4H2, VPS33B, LAMP2, VMA21, STAC3, LMOD3, MEGF10, EPG5, TTN, ADAMTS15, CACNA1S, CNTN1, DOK7, GOLGA2, HACD1 (PTPLA), INPP5K, KLHL9, MSTO1, MTMR14, MYBPC3, MYL1, MYO18B, NUP88, SCN4A, SPEG, SRPK3, THEM38A, TRAPPC11)</p>	<p><u>Next Generation Sequencing and data analysis (cont'd)</u></p>	<p>GL</p>



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Genomic DNA extracted in-house from the sample types listed above or received as primary sample type from external source</p>	<p><u>Molecular Genetics (cont'd)</u></p> <p>Detection of nucleic acid sequence variants for the purpose of clinical diagnosis. Name of disease with name of analysed gene(s) in brackets: (cont'd)</p> <p>Glycogen storage disease (AGL, ALDOA, ALDOB, ENO3, EPM2A, FBP1, G6PC, GAA, GBE1, GYG1, GYG2, GYS1, GYS2, LAMP2, LDHA, LIPA, NHLRC1, PFKL, PFKM, PGAM2, PGK1, PGM1, PHKA1, PHKA2, PHKB, PHKG1, PHKG2, PPP1R2, PRKAG2, PYGL, PYGM, SLC37A4, SLC2A2)</p>	<p><u>Next Generation Sequencing and data analysis (cont'd)</u></p>	<p>GL</p>



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Genomic DNA extracted in-house from the sample types listed above or received as primary sample type from external source</p>	<p><u>Molecular Genetics (cont'd)</u></p> <p>Detection of nucleic acid sequence variants for the purpose of clinical diagnosis. Name of disease with name of analysed gene(s) in brackets: (cont'd)</p> <p>Nucleotide Excision Repair disease R227(MPLKIP, DDB1, DDB2, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, ERCC6, ERCC8, GTF2H5, POLH, XPA, XPC, LIG4, XRCC4, NHEJ1, UVSSA, CDKN2A, PTCH1)</p> <p>Urea cycle defects (ARG1, ASL, ASS1, CPS1, NAGS, OAT, OTC, SLC25A13, SLC25A15)</p>	<p><u>Next Generation Sequencing and data analysis (cont'd)</u></p>	GL
<p>Genomic DNA extracted in-house from the sample types listed above or received as primary sample type from external source</p>	<p>CFTR</p>	<p><u>Fluorescent Amplification Refractory Mutation System (ARMS) multiplex PCR</u></p> <p>In-house procedures LP-D-422 LP-D-423 In conjunction with manufacturer's instructions using: Elucigene kit ABI 3730 DNA analyser GeneMarker analysis software</p>	GL



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Embryonic cells Buccal cells DNA extracted in-house from the sample types listed here or received as primary sample type from external source</p>	<p><u>Molecular Genetics (cont'd)</u></p> <p>Detection of pathogenic gene variants for inherited genetic disorders for the purpose of clinical diagnosis</p>	<p>Flexible scope protocols: QP-G-24 in conjunction with documented in-house methods for haplotype analysis using STR microsatellite markers or in combination with genotyping supported by in-house primer design, extraction and amplification methods as listed below</p> <p>Flexible scope limited to the application of these methods for the detection of additional pathogenic gene variants listed in LF-D-494 PGD Diseases</p>	<p>PGD</p>



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HUMAN TISSUES AND FLUIDS (cont'd) Embryonic cells Buccal cells DNA extracted in-house from the sample types listed here or received as primary sample type from external source	<u>Molecular Genetics (cont'd)</u> Detection of pathogenic gene variants for inherited genetic disorders for the purpose of clinical diagnosis	<u>Multiple Displacement Amplification</u> whole genome amplification of low copy number of cells using in-house procedures: LP-D-109 LP-D-130 LP-D-131 LP-D-132 In conjunction with manufacturer's instructions using: PCR6 hoods, PTC200 DNA Engine, MJ Dyad thermocycler	PGD
		<u>Polymerase chain reaction (PCR)</u> using in-house procedures: LP-D-112 LP-D-231 LP-D-241 Manual or automated set up in conjunction with manufacturer's instructions using Cas1200 liquid handler followed by PCR using Biorad C1000 thermocyclers.	PGD
		<u>Detection of fluorescently labelled PCR products</u> using in-house procedures: LP-D-32 in conjunction with manufacturer's instructions using ABI 3730 DNA Analyser	PGD



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Embryonic cells Buccal cells DNA extracted in-house from the sample types listed here or received as primary sample type from external source</p>	<p><u>Molecular Genetics (cont'd)</u></p> <p>Sickle cell anaemia [HBB]</p>	<p><u>Multiple Displacement Amplification, PCR and Detection of fluorescently labelled PCR products (as above) plus Amplification Refractory Mutation System (ARMS)</u> using in-house procedures: LP-D-214 in conjunction with manufacturer's instructions using Biorad C1000 thermocyclers</p>	<p>PGD</p>



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HUMAN TISSUES AND FLUIDS (cont'd)		Examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	GEB
	<u>Immunodermatology</u>	Examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	GEB
Skin biopsies		Manual processing Cryostat sectioning using Leica CM1950 cryostat Photography using Nikon Eclipse E600 microscope and: DME-SOP-42	GEB



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HUMAN TISSUES AND FLUIDS (cont'd)		Examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	GEB
Processed, frozen & sectioned skin biopsies	<u>Mapping of the following antigens:</u> Laminin 5 (Laminin-332) Type VII collagen Type IV collagen Keratin 14 Plectin C terminal Plectin N terminal Type XVII collagen Beta4 integrin (CD104) Alpha6 integrin	Manual indirect immunofluorescence by microscopy using: DME-SOP-42 and: Nikon Eclipse E600 microscope and the following antibodies/clones: GB3 LH7.2 COL-94 LL002 pC185 pN645 NC16A3 450-9D GOH3	GEB



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Processed, frozen & sectioned skin biopsies	<u>Mapping of the following antigens:</u> Keratin 5 Keratin 10 Keratin 16 Desmoplakin 1 Plakophilin-1	Manual indirect immunofluorescence by microscopy (cont'd) using the following antibodies/clones: XM26 DE-K10 LL0025 DP2.17 PP1-5C2 (15F11)	GEB



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Enzymology and metabolite analysis</u>		
1. Plasma 2. Chorionic villus 3. Skin fibroblasts 4. Amniotic cells 5. Dried bloodspots 6. Leucocytes 7. Tissues 8. Amniotic fluid 9. Serum 10. Liver 11. Urine 12. Lithium heparin blood	Detection of, for the purpose of clinical diagnosis:		
11	Oligosaccharides (Glycoprotein storage disorders)	Thin layer chromatography In-house procedures: LP-B-109	BG
11	Glycosaminoglycans (GAGs) (diagnosis of mucopolysaccharidosis disorders)	Colorimetric enzyme assay Quantitative measurement using in-house procedures: LF-B-12 LP-B-44 in conjunction with manufacturer's instructions using: Roche Cobas Bio	BG
8, 11	Glycosaminoglycans (GAGs) (mucopolysaccharidosis disorders)	2D electrophoresis In-house procedures: LP-B-45	BG
2, 3, 4	Free cholesterol accumulation (Niemann Pick C disease)	Filipin staining and fluorescence microscopy In-house procedures: LP-B-93	BG



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Enzymology and metabolite analysis (cont'd)</u>		
Sample types 1 – 12 as listed above	Detection of, for the purpose of clinical diagnosis: (cont'd)	Fluorimetric enzyme assay using in-house procedures below in conjunction with manufacturer's instructions using: Perkin Elmer LS55 Fluorimeter	BG
2, 3, 4, 6	N-acetylgalactosamine -6-sulphatase (MPS IVA – Morquio A)	LP-B-77	
2, 3, 4	N-acetylglucosamine-6-sulphatase (MPS IIID – Sanfilippo D)	LP-B- 145	
1, 2, 3, 4, 6	α -N-acetylgalactosaminidase (Schindler's disease)	LP-B-57	
1, 2, 3, 4	α -N-acetylglucosaminidase (MPS IIIB – Sanfilippo B)	LP-B- 116	
2, 3, 4	N-acetyl-neuraminidase (Sialidosis)	LP-B-71	
2, 3, 4, 6	Arylsulphatase B (MPS VI – Maroteaux Lamy)	LP-B-99	
1, 2, 3, 4, 6	Aspartylglucosaminidase (Aspartylglucosaminuria)	LP-B-78	
1, 2, 3, 4, 6	α -fucosidase (Fucosidosis)	LP-B-65, LP-B-66	
1, 9	Chitotriosidase (marker of macrophage activity: grossly elevated in Gaucher disease/ can be raised in other disorders)	LP-B-62	



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Schedule of Accreditation
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United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Synnovis Analytics LLP
Issue No: 027 Issue date: 23 December 2024

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	<u>Enzymology and metabolite analysis (cont'd)</u>		
Sample types 1 – 12 as listed above	Detection of, for the purpose of clinical diagnosis: (cont'd)	Fluorimetric enzyme assay using in-house procedures below in conjunction with manufacturer's instructions using: Perkin Elmer LS55 Fluorimeter	BG
12	Galactose 1-phosphate uridyl transferase	LP-B-47	
2, 3, 4, 6	Glucosamine N-acetyl transferase (MPS IIIC – Sanfilippo C)	LP-B-76	
2, 3, 4, 6, 7	α -glucosidase (GSD II, Pompe disease)	LP-B-88, LP-B-113	
2, 3, 4, 6	β -glucosidase (Gaucher disease)	LP-B-61	
1, 2, 3, 4, 6, 9	β -glucuronidase (MPS VII- Sly)	LP-B-55	
2, 3, 4, 6	Heparan sulphamidase (MPS IIIA – Sanfilippo A disease)	LP-B-74 (119)	
1, 2, 3, 4, 6, 9	Hexosaminidase A (MUGS) (GM2 gangliosidosis -Tay Sachs disease)	LP-B-52	
1, 2, 3, 4, 6, 8, 9	Hexosaminidase A & B Total (GM2 gangliosidosis- Sandhoff disease)	LP-B-84	
1, 2, 3, 4, 6, 9	Iduronate sulphatase (MPS II – Hunter disease)	LP-B-73	



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Sample types 1 – 12 as listed above	Detection of, for the purpose of clinical diagnosis: (cont'd)	Fluorimetric enzyme assay (cont'd)	BG
2, 3, 4, 6	α -iduronidase (MPS I – Hurler /Scheie disease)	LP-B-72	
1, 2, 3, 4, 6, 9	α -mannosidase (α -mannosidosis)	LP-B-67, LP-B-68	
1, 2, 3, 4, 6, 9	β -mannosidase (β -mannosidosis)	LP-B-56	
2, 3, 4, 6	Palmitoyl protein thioesterase (Infantile neuronal ceroid lipofuscinosis – NCL1)	LP-B-79	
2, 3, 4, 6	Tripeptidyl peptidase I (Classic late infantile neuronal ceroid lipofuscinosis – NCL2)	LP-B-80	
Sample types 1 – 12 as listed above	Detection of:	Fluorimetric enzyme assay using in-house procedures below in conjunction with manufacturer's instructions using: Perkin Elmer LS55 Fluorimeter and Fluostar Optima platereader	BG
1, 2, 3, 4, 5, 6	Acid esterase / lysosomal acid lipase. (Wolman/ cholesterol ester storage disease: LIPA deficiency)	LP-B-94	
1, 2, 3, 4, 5, 6, 9	α -galactosidase A (Fabry disease)	LP-B-69, LP-B-121, LP-B-138	
2, 3, 4, 5, 6	β -galactosidase (GM1 gangliosidosis & Morquio B disease)	LP-B-138, LP-B-60	



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Sample types 1 – 12 as listed above	Detection of, for the purpose of clinical diagnosis: (cont'd)	Fluorimetric enzyme assay using in-house procedures below in conjunction with manufacturer's instructions using: BMG Lab Tech ClarioStar Fluorimeter	BG
6, 9	% Hexosaminidase A by heat inactivation for Tay-Sachs carrier testing	LP-B-50 LP-B-103	
Sample types 1 – 12 as listed above	Detection of:	Colorimetric enzyme assay using manufacturer's instructions for: Fluostar Optima platereader and in-house procedures:	BG
2, 3, 4, 6, 7, 10, 12	Protein Determination	LP-B-3	
2, 3, 4, 6	Arylsulphatase A (Metachromatic Leucodystrophy)	LP-B-58	
Sample types 1 – 12 as listed above	Detection of:	Colorimetric enzyme assay using manufacturer's instructions for: Roche Cobas Bio and in-house procedures:	BG
11	Creatinine	LP-B-4	
10	Carbamyl phosphate synthetase (CPS - Carbamyl phosphate synthetase deficiency)	LP-B-96	
1, 8, 9	Arylsulphatase A: screen for I-cell (mucopolipidosis II/ III)	Qualitative assay LP-B-81 (115)	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Enzymology and metabolite analysis (cont'd)</u>		
Sample types 1 – 12 as listed above	Detection of, for the purpose of clinical diagnosis: (cont'd)	Colorimetric enzyme assay (cont'd)	BG
10	Ornithine transcarbamylase (OTC - Ornithine transcarbamylase deficiency)	LP-B-96	
Sample types 1 – 12 as listed above	Detection of:	Radiolabelled enzyme assay using manufacturer's instructions for Scintillation counter Hidex 300SL and in-house procedures:	BG
2, 3, 4	14C-citrulline incorporation (citrullinaemia and argininosuccinic aciduria)	LP-B-94	
2, 3, 4	Branched chain ketoacid decarboxylase (MSUD Maple syrup urine disease)	LP-B-95	
2, 3, 4, 6	Dihydroxyacetone phosphate acyl transferase (Zellweger syndrome /other generalised peroxisomal disorders)	LP-B-89	
2, 3, 4, 6	Galactocerebrosidase (Krabbe leucodystrophy)	LP-B-59	
12	Galactokinase (Galactokinase deficiency)	LP-B-49	
2, 3, 4	3-methylcrotonyl-CoA carboxylase (3-methylcrotonyl-CoA carboxylase/ multiple carboxylase deficiency)	LP-B-97	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Enzymology and metabolite analysis (cont'd)</u>		
Sample types 1 – 12 as listed above	Detection of, for the purpose of clinical diagnosis: (cont'd)	Radiolabelled enzyme assay (cont'd)	BG
2, 3, 4	Propionyl-CoA carboxylase (Propionic acidaemia)	LP-B-97	
2, 3, 4	Pyruvate carboxylase (Pyruvate carboxylase deficiency)	LP-B-97	
2, 3, 4, 6	Sphingomyelinase (Niemann Pick A/B disease)	LP-B-63	
12	Galactose-1-Phosphate Uridyl Transferase	<u>Direct Spectrophotometry using Shimadzu UV-1900i Spectrophotometer</u> LP-B-47	BG



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Prenatal and reproductive genetics</u>		
Amniotic fluid Chorionic villus Blood Fetal blood Solid tissues / products of conception DNA extracted in-house from the sample types listed here or received as primary sample type from external source	Aneuploidy detection	QF-PCR using in-house procedures: LP-G-2/ LP-G-PCR DNA extraction LP-G-6/LP-G-aCGH QF-PCR tissue samples LP-G-1/LP-G-PCR set up LP-G-322/LP-G-PCR Run 3500 LP-G-8/LP-G-PCRA Analysis Trisomy and Chemagen 360-D automated DNA extractor Dyad & Eppendorf Thermocyclers ABI 3500 Genetic analyser	GL
Amniotic fluid Chorionic villus Blood Products of conception DNA extracted in-house from the sample types listed here or received as primary sample type from external source	Genome-wide copy number variation	Single Nucleotide Polymorphism SNP-array technology using in-house procedures: LP-G-346 SNP Array Automated Process Thermo Fisher CytoScan High-throughput cytogenomic array (HT-CMA)	GL
Blood Fetal blood samples Chorionic villus Amniotic fluid	Karyotype	Culture and karyotype analysis using in-house procedures: Prenatal: LF-G-138/LP-G-PNHAR LP-C-102/LP-C-AFSETUP LP-G-194/LP-G-PNCVS Processing Postnatal: LP-C-70/LP-C-ProcBloodCult, LP-C-72/LPC-ProcHarvBlood, LP-C-125/LP-CBloodGBanding and Ikaros software on Metasystems	GL
Blood Fetal blood samples Chorionic villus Amniotic fluid	Chromosome breakage studies	Culture and chromosome breakage screening using in-house procedures: DOC3/LP-C-Atbldsu DOC4/LP-C-Atbldharv DOC9/LP-C-FABldDEB DOC10/LP-C-FABldHarv DOC11/LP-C-FABldSU	GL



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Prenatal and reproductive genetics</u>		
Blood Fetal blood samples Chorionic villus Amniotic fluid DNA extracted in-house from the sample types listed here or received as primary sample type from external source	Uniparental disomy of chromosomes 7, 14, 15	PCR analysis using in-house procedures: LP-G-13/LP-G-PCR UPD and Dyad & Eppendorf Thermocyclers ABI 3500 Genetic analyser	PGD
Blood Fetal blood samples Chorionic villus Amniotic fluid Solid tissues / products of conception DNA extracted in-house from the sample types listed here or received as primary sample type from external source	Uniparental disomy of chromosomes 7, 14, 15	PCR analysis using in-house procedures: LP-G-2001/LP-G-MCCtestingPCR set up LP-G-13/LP-G-PCR UPD and Dyad & Eppendorf Thermocyclers ABI 3500 Genetic analyser	GL PGD
Blood Fetal blood samples Chorionic villus Amniotic fluid Solid tissues/ products of conception DNA extracted in-house from the sample types listed here or received as primary sample type from external source	Maternal cell contamination	PCR analysis using in-house procedures: LP-G-1/LP-G-PCR set up LP-G-200/LP-G-MCCtesting and Dyad & Eppendorf Thermocyclers ABI 3500 Genetic analyser	GL



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Developmental disorder genetics</u>		
Blood Saliva Tissues	Genome-wide copy number variation	Single Nucleotide Polymorphism SNP-array technology using in-house procedures: DOC188 / Array Wash and Scan LP-G-356 SNP Array Analytics And Thermo Fisher CytoScan High-throughput cytogenomic array (HT-CMA)	GL
	<u>Chromosome rearrangement PGD</u>		
Trophectoderm biopsy samples from embryos	Unbalanced products from chromosome rearrangements	Single Nucleotide Polymorphism SNP-array technology using in-house procedures: LP-G-356 SNP Array Analytics LP-G-31 SNP Array analysis for PGT-SR samples and Thermo Fisher CytoScan High-throughput cytogenomic array (HT-CMA)	GL



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Cancer genetics</u>		
Blood Bone marrow	Non-specific global chromosome analysis for disease types: Acute myeloid leukaemia (AML) Acute lymphoblastic leukaemia (or lymphoma) (ALL) Chronic myeloid leukaemia (CML) Myelodysplastic syndromes (MDS) Myeloproliferative neoplasms (MPN) Non-Hodgkin's lymphoma with bone marrow involvement	G-banded analysis using in-house procedures: LP-G-191 CG Cyto - Analysis Guidelines	GL
Blood Bone marrow	Analysis of Haematological malignancies caused by mutations within genes: BCR/ABL PDGFR β FGFR1 FIP1L1-PDGFR α RUNX1/RUNX1T1 PML/RAR α RAR α CBF β KMT2A (MLL) EGR1/D5S23, D5S721 D7S486/CEP7 D20S108 Chromosome 8 alpha satellite ETV6 EVI ETV6/RUNX1 KMT2A (MLL) KMT2A/AFF1 TCF3(E2A)	Fluorescent in-situ hybridisation (FISH) analysis using in-house procedures: LP-G-191 CG Cyto - Analysis Guidelines and Thermobrite hybridisation chamber Fluorescence microscopy	GL



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Cancer genetics (cont'd)</u>		
Blood Bone marrow	Analysis of Haematological malignancies caused by mutations within genes (cont'd): Lymphoma probes: IGH/MYC IGH/CCND1 IGH/BCL2 IGH ALK BCL6 IGH/MALT1 BIRC3(API2)/MALT1 MYC	FISH analysis using in-house procedures: LP-G-191 CG Cyto - Analysis Guidelines and Thermobrite hybridisation chamber Fluorescence microscopy	GL
Blood Bone marrow	Analysis of CD138 cell separation: CKS1B/CDKN2C TP53/ATM DLEU/13q34/CEP12 IGH IGH/FGFR3 IGH/CCND1 IGH/MAF IGH/MAFB IGH/CCND3 D5S23, D5S721/CEP9/CEP15	FISH analysis using in-house procedures: LP-G-191 CG Cyto - Analysis Guidelines and Thermobrite hybridisation chamber Robosep Fluorescence microscopy	GL
Blood Bone marrow	Analysis of Chronic lymphocytic leukaemia genes: TP53/ATM DLEU/LAMP/CEP12	FISH analysis using in-house procedures: LP-G-191 CG Cyto - Analysis Guidelines and Thermobrite hybridisation chamber Fluorescence microscopy	GL



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Cancer genetics (cont'd)</u>		
FFPE solid tumour samples	Analysis of the following genes: SS18 (SYT) FUS CHOP (DDIT3) FOXO1A (FKHR) EWSR1 ALK ROS1 MET MYB MAML2 ETV6 HER2 Vysis Melanoma panel Vysis UroVysion FISH panel	FISH analysis using in-house procedures: LP-G-191 CG Cyto - Analysis Guidelines and Thermobrite hybridisation chamber Fluorescence microscopy	GL
FFPE lymphoma samples	IGH/MYC IGH/CCND1 IGH/BCL2 IGH ALK BCL6 IGH/MALT1 BIRC3(API2)/MALT1 MYC	FISH analysis using in-house procedures: LP-G-191 CG Cyto - Analysis Guidelines and Thermobrite hybridisation chamber Fluorescence microscopy	GL
FFPE tissues: Lung Colorectal	RET	FISH analysis using in-house procedures: LP-G-191 CG Cyto - Analysis Guidelines and Thermobrite hybridisation chamber Fluorescence microscopy	GL
Blood Bone marrow	JAK2 V617F quantification and determination of allelic burden	qPCR using in-house procedures: LP-MO-61 JAK2 V617F quantification assay And Qiagility Applied Biosystems QuantStudio 7 thermal cycler	GL



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Molecular oncology</u>		
Blood	BCRABL quantitation (for CML p210 only)	qPCR using in-house procedures: LP-MO-2 BCRABL Quantitation qPCR And Qiagility Applied Biosystems QuantStudio 7 thermal cycler	MOU
Blood	JAK2 V617F Mutational status	qPCR using in-house procedures: LP-MO-3 JAK2 V617F Mutational Status by qPCR And Qiagility Applied Biosystems QuantStudio 7 thermal cycler	MOU
Blood Bone marrow	Detection of CALR mutation	Fragment analysis using in house procedures: LP-MO-32 CALR Mutation and Applied Biosystems Veriti 96 thermal cycler ABI 3730 Sequencer	MOU
Blood Bone marrow	MPL exon 10 and/or JAK2 exon 12 mutational status	HRM using in-house procedures: LP-MO-23 HRM amplification for MPL exon10 and/or Jak2 exon12 Mutational Status and Lightcycler 480	MOU
Blood Bone marrow	Detection of PMLRARA fusion transcripts	qPCR using in-house procedures: LP-MO-27 RQ PCR for the detection of PMLRARA And Qiagility, Applied Biosystems QuantStudio 7 thermal cycler	MOU
cDNA (from PB, BM, RLT, TRIZOL, cell suspension)	Core Binding Factor translocations QPCR MRD testing	qPCR using in house procedures: LP-MO-45 Core Binding Factor translocations by qPCR	MOU



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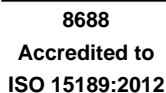
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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Molecular oncology (cont'd)</u>		
Blood Bone marrow	Nucleophosmin Mutation detection	1PCR using in-house procedures: LP-MO-42 qNPM1 mutation detection And Qiagility, Applied Biosystems QuantStudio 7 thermal cycler	MOU
Extracted DNA/RNA from FFPE	Sequencing of gene targets for the NHSE National Genomic Test Directory	Ion Torrent Genexus System Oncomine Precision Assay (OPA) LP-MO-79 Genexus™ FFPE DNA/RNA Oncomine™ Precision Assay GX LP-MO-80 Genexus™ FFPE DNA/RNA Oncomine Precision Assay GX Reporting and Analysis	MOU



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DNA	Detection of Single Nucleotide Variants (SNVs) and Indels (insertions/deletions) within genes covered by the pan cancer panel	<p>LP-MO-63</p> <p>LP-MO-171</p> <p>LP-MO-74</p>	