



Canterbury - Health New Zealand
Canterbury Health Laboratories

Client Number 3684

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Authorised Representative

Dr Joanne Mitchell
Quality Manager

Programme

Medical Testing Laboratory

Accreditation Number 508

Initial Accreditation Date 28 January 1994

Conformance Standard

ISO 15189:2022

Medical Laboratories - Requirements for quality and competence

Laboratory Services Summary

Ashburton Hospital

Biochemistry
Haematology
Patient Services
Specimen Services
Transfusion Medicine

Christchurch Hospital

Biochemistry
Cytology
Genetics
Haematology
Histology
Immunology
Microbiology
Mortuary
Patient Services
Point-of-care testing
Serology
Specimen Services
Virology
Toxicology and Work Place Drug Testing

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This laboratory is accredited for specific activities within the following disciplines:

Ashburton Hospital

Biochemistry

General Biochemistry

Materials/Products

Blood; Plasma; Serum

Types of Examination/Technical Field

Routine biochemical parameters by Beckman Coulter DxC700 using the following techniques:

- Spectrophotometry
- Ion selective electrodes
- Enzymatic rate assay

TNI by Beckman Coulter Access 2 using the following techniques:

- Automation Chemiluminescent Immunoassay

iSTAT

- CG4+cartridge
- CHEM8+cartridge

Haematology

General Haematology

Materials/Products

Blood

Types of Examination/Technical Field

Full Blood Count parameters by XN-550 haematology analyser using the following techniques:

- Direct current detection
- Photometry
- Flow cytometry (fluorescence and light scatter)

Erythrocyte Sedimentation Rate by the following techniques:

- Automated modified Westergren method by automated MixRate X20

Peripheral blood film preparation and staining by the following techniques:

- Semi-automated stain with Siemens Hematek

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Haemostasis

Materials/Products

Whole blood

Types of Examination/Technical Field

INR by Roche CoaguChek Pro II using the following strips:
XS PT Test

Patient Services

Ashburton Hospital	Type of Examination / Technical Field
Laboratory / Outpatients	Venepuncture collections Capillary collections Collection/receipt of other specimens (urine, faeces, swabs) Collection of Mycology specimens (skin, nail, hair) Collection of specimens for Scabies investigations Collection of urine for evidential drug testing Collection of specimens for paternity testing Collection of specimens for Synacthen testing Glucose Tolerance Tests Mantoux Testing Therapeutic Venesections Home visit collections Specimen preparation for transportation
Wards	Venepuncture collections Capillary collections Collection of specimens for Scabies investigations Collection of specimens for Synacthen testing

Specimen Services

Specimen reception
 Specimen preparation and storage - manual
 Data registration
 Specimen preparation for transport to a national referral laboratory

Transfusion Medicine

Type of Examination/Technical Field

Storage and issue of blood components and products

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Christchurch Hospital

Biochemistry

General Biochemistry

Materials/Products

Blood; Plasma; Serum; Urine; CSF; Other body fluids

Types of Examination/Technical Field

Sample handling, aliquoting and specimen delivery by:

Beckman Coulter Automate 2550

Beckman Coulter DxA 5000 Laboratory automation System

Biochemical parameters by Beckman AU5822 using the following techniques:

Spectrophotometry

Ion selective electrodes

Enzymatic rate assay

Immunoturbidimetric

Colorimetric

Biochemical parameters by Beckman Coulter Unicel DXI 9000 using the following techniques:

Chemiluminescence immunoassay (CLIA)

Biochemical and Blood Gas parameters by ABL90 FLEX Plus using the following techniques:

ISE direct

Absorbance and reflectance

Hormones (Vitamin D only) by DiaSorin LXL analyser using:

Immunoassay (CLIA)

Osmolality Parameters by OsmoPro Max using the following techniques:

Depression of freezing point

Xanthochromia by Agilent 60 UV-Vis Spectrophotometer

Absorption spectrophotometry

Miscellaneous manual tests using the following techniques:

Urine Pregnancy test by Rapid Chromatographic immunoassay

Proteins and Immunochemistry Laboratory

Materials/Products

Serum; Plasma; Blood; Urine; CSF

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Types of Examination/Technical Field

Plasma proteins including immunoglobulins by Siemens BNII Nephelometer using the following techniques:
Nephelometric immunoassay

Alpha-1 Antitrypsin Phenotyping and CSF oligoclonal banding by Sebia Hydrasys using:
Isoelectric focussing

Haemoglobinopathy/Thalassaemia screening using the following techniques:
Capillary electrophoresis by Sebia Minicap Flexpiercing
Bio-Rad Variant II by HPLC

Diabetes monitoring using the following techniques:
Siemens DCA vantage by latex agglutination
Bio-Rad D100 by HPLC

CDT screening by Sebia Minicap Flexpiercing using:
Capillary electrophoresis

Protein electrophoresis, immunofixation, cryoglobulin identification, B-2 transferrin or in house manual electrophoresis using Helena SPIFE Touch and ESH Touch using the following techniques:
Gel electrophoresis and immunofixation

Serum free light chains by OptiLite using:
Turbidimetry

Endocrinology Laboratory

Materials/Products

Plasma; Serum; Saliva; Urine; Water (dialysis water)

Types of Examination/Technical Field

Endocrine parameters by Cobas e402 using the following techniques:
Immunoassay (ECLIA)

Endocrine parameters by Beckman Coulter Access 2 using the following techniques:
Immunoassay (ECLIA)

Quantification of peptide hormones by Luminex using the following techniques:
Fluorescent immunoassay

Quantification of Vasoactive Intestinal Peptide PTHrP and ASU using the following techniques:
Radioimmunoassay

Inhibin B by Beckman coulter ELISA Gen II kit on automated DS2 using the following techniques:
Immunoassay (ELISA)

Endocrine parameters by IDS- iSyS using the following techniques:

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Chemiluminescence immunoassay (CLIA)

Endocrine parameters by LCMS/MS using the following technique:
Mass Spectrometry

Specialist Biochemistry

Materials/Products

Blood; Plasma; Serum; Urine; CSF; Other body fluids; Faeces; Renal stones; Tissue

Types of Examination/Technical Field

Trace metals analysis by Inductively coupled plasma mass spectrometry using:

Agilent ICPMS 7900

Sample preparation for Trace metals by Aurora Versa 1100 SPE

Transferrin isoforms, Haemoglobinopathies, Glycated albumin & ApoCIII by Mass spectrometry using:
Agilent TOF

Tumour markers, MMA, organic acids, carnitine, TMA, vitamins & TPMT by Triple quadrupole mass spectrometry liquid chromatography using:

Agilent 6490

Waters XEVO TQ-XS

Porphyryn analysis, Disaccharidase, Asparaginase, Elastase by UV-Vis spectrophotometer using:

Agilent Cary 4000

Polytron homogeniser

Thermo Fisher microplate reader

Renal stones analysis by FTIR spectroscopy using:

Thermo FTIR Nicolet iS10

Porphyryn analysis by Fluorescence spectrophotometry using:

Agilent Eclipse

Chromogranin A & Copeptin by Automated immunofluorescent using:

Thermo BRAHMS Kryptor

Vitamins, Serotonin, Porphyryn analysis by High-performance liquid chromatography using:

Thermo Ultimate 3000 HPLC & Thermo Fisher Vanquish

Amino acid analysis by ultra-performance liquid chromatography using:

Acquity Waters AAA

Automated assays by Beckman Coulter DxC700 autoanalyser using the following techniques:

Automated Enzymatic

Automated Kinetic

Automated Turbidimetric

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Automated Turbilatex

Isoenzyme, MPS by electrophoresis

Gastrin, P3NP by Radio immunoassay

Antenatal Screening for Downs Syndrome by Time-Resolved Fluorescence using:
Revvity AutoDELFIA

Lipids by ultracentrifugation & electrophoresis using:
Beckman coulter ultra optima max XP
Sebia Electrophoresis

Send away: multiple samples; frozen, chilled or cards sent to multiple labs within NZ and around the world

Cytology

Non-gynaecological Cytology

Materials/Products

Respiratory; Urinary; Alimentary; Oral; CSF; Vitreous; Fluid (pleural, pericardial, peritoneal); Female genital tract; Aspirates of various organs and body sites

Types of Examination/Technical Field

Macroscopic assessment of sample(s)

Preparation of samples using the following techniques:

Manual cell block preparation
Liquid based cytology using SurePath LBC
Cytospin method for FNA samples

Papanicolaou staining of cytological slide preparations by the following techniques:

Automated Papanicolaou stain using Leica ST4020 stainer
Manual Papanicolaou stain process
Manual diff quick stain for air dried preparations

Morphological assessment, interpretation and diagnosis by:

Conventional light microscopy

Genetics

Cytogenetics

Materials/Products

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Blood; Bone Marrow; Amniotic Fluid; Chorionic Villus tissue; (e.g. Fibroblast; Tissue biopsy) Other tissues - malignant (e.g. Tumour biopsy); Formalin-fixed, Paraffin-embedded (FFPE) tissue

Types of Examination/Technical Field

Tissue culture of viable specimen types using manual methods

Chromosome analysis (G-banded karyotype analysis) using:

Conventional light microscopy

Zeiss Metasystems image capture and analysis software (NEON – IKAROS/ISIS module)

Other banding techniques such as C-banding and NOR staining using manual methods

Cell sorting of CD138 positive plasma cells

Fluorescence in-situ hybridisation (FISH) using:

Manual processing

Leica Thermobrite Elite slide processor

Abbott Molecular VIP 2000 slide processor

Fluorescence in-situ hybridisation (FISH) analysis using:

Fluorescence microscopy

Zeiss Metasystems automated cell capture software (NEON - METAFER module)

Zeiss Metasystems image capture and analysis software (Neon - IKAROS/ISIS module)

Molecular karyotype processing using Perkin Elmer designed 180k CGX SNP-HD processed on an Agilent SureScan instrument

Molecular karyotype analysis using Cytogenomics (Agilent) and Genoglyphix (Perkin Elmer) analysis software

Quantitative fluorescent PCR using kits from Elucigene™ on a verified thermocycler (see Molecular Pathology PCR section). PCR products are sequenced using an ABI3500 or SeqStudio genetic analyser and analysed using GeneMapper software

Variant curation using current CNV guidelines

Molecular Pathology

Materials/Products

Blood; Bone marrow; Amniotic Fluid; Chorionic Villus tissue; Blastocyst biopsy; Other tissues - non-malignant (e.g. Fibroblast; Tissue biopsy); Other tissues - malignant (e.g. Tumour biopsy); Formalin-fixed, Paraffin-embedded (FFPE) tissue; Buccal swabs; Saliva; Semen; Urine; Hair follicle; Guthrie card

Types of Examination/Technical Field

DNA extraction using:

Manual (in-house) methods

Manual kit-based methods (Qiagen, HiPure)

Machery Nagel reagents on a Hamilton STARlet

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Kurabo DNA whole blood kit L reagents on a Kurabo QuickGene-Auto240L

RNA extraction using manual methods

PCR using:

Bio-Rad T100
Bio-Rad C1000
Applied Biosciences SimpliAmp
Applied Biosciences Proflex
Applied Biosystems VeritiPro 96-well

Real time (QF) PCR and melt curve analysis using:

Roche Thermocycler PCR LightCycler 480 II

DNA sequencing (Sanger or First Generation) and fragment analysis using:

Thermo Fisher SeqStudio
Thermo Fisher ABI 3000XL

DNA sequencing (Massively Parallel or Next Generation) using:

Thermo Fisher Ion Torrent S5 Prime system
Illumina MiSeq systems

NGS Library preparation using:

Illumina or Twist reagents by manual methods
Illumina or Twist reagents on a Hamilton STARlet
Thermo Fisher ReproSeq reagents on an Ion Chef

Sanger sequence analysis using:

Thermo Fisher Ion Reporter and Torrent Suite Software
Seqscape Software
AlamutVisual Software
Geneious software

NGS sequence analysis using:

Illumina Local Run Manager and Dragen (secondary analysis)
Illumina Emedgene (tertiary analysis)
IGV, AlamutVisual Plus, Geneious
In-house LINUX bioinformatics pipelines
In-house CNV calling method

ddPCR using the Bio-Rad QX200 Droplet Generator and QX200 Droplet Reader

SNP genotyping using:

In-house assays (TaqMan, Hybrobes, high res melting, ARMS PCR, gap-PCR)
Elucigene™ kits

Fragment analysis using in-house methods (STR linkage analysis, MLPA using MRC Holland kits, QF-PCR)

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Analysis using Illumina Genemapper and Coffalyser software

Variant curation/classification using current ACMG/ACGS guidelines for germline variant curation, including any relevant expert panel specifications

Molecular Oncology

Materials/Products

Formalin-fixed, Paraffin-embedded (FFPE) tissue; cell blocks; Blood; Bone marrow

Types of Examination/Technical Field

DNA extraction using:

- Manual (in house) methods
- Manual kit-based methods
- Automated processing on Hamilton STARlet

RNA extraction using:

- Manual (in house) methods
- Manual kit-based methods

cDNA synthesis using Invitrogen reagents

Cell sorting of T cells and neutrophils

PCR using:

- Biorad T100
- Biorad C1000
- Applied Biosciences SimpliAmp
- Applied Biosciences Proflex
- Applied Biosystems VeritiPro 96-well

Real time PCR using:

- Roche Thermocycler PCR LightCycler 480 II

Reverse Transcriptase PCR using:

- Various methods (for gene rearrangements)

DNA sequencing (Sanger or First Generation) using

- Thermo Fisher SeqStudio
- Thermo Fisher ABI 3000XL

DNA sequencing (Massively Parallel or Next Generation) using:

- Illumina MiSeq
- Illumina NextSeq1000 (located at WRGL)

NGS Library preparation using:

- Illumina or Twist reagents by manual methods

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Illumina or Twist reagents on a Hamilton STARlet
Invivoscribe reagents by manual methods (gene rearrangement NGS)

NGS sequencing analysis:

Qiagen CLC Genomics Workbench (secondary analysis)
Illumina Connected Analytics (secondary analysis)
Illumina Connected Insights (tertiary analysis and variant curation)

ddPCR using the Bio-Rad QX200 Droplet Generator and QX200 Droplet Reader

SNP genotyping using:

Fully validated in-house assays
Elucigene™ kits

Fragment analysis using in house methods

STR analysis using:

AmpFISTR PCR Amplification Kit

Microsatellite Instability (NMSI) testing using Idylla

qPCR testing using GeneXpert

Variant curation by manual methods using current guidelines for classification of pathogenicity of somatic variants in cancer

Haematology

General Haematology

Materials/Products

Blood; Bone marrow

Types of Examination/Technical Field

Full Blood Count parameters by Sysmex XN-10 and XN20 haematology analysers using the following techniques:

Direct current detection
Photometry
Flow cytometry (fluorescence, side scatter, forward scatter)

Peripheral blood film preparation and staining by the following techniques:

Automated smear and stain by Sysmex SP10
Manual smear and stain using Coplin jars

Blood film examination by light microscopy:

Manual conventional method

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Digital morphology by CellaVision DI60

Erythrocyte Sedimentation Rate by the following method:
Automated modified Westergren method by MixRate 20

Special staining and light microscopy by/for the following techniques:
Manual Malaria parasites (thin films only)
Manual stain for blood parasites
Manual acid elution for Foetal Haemoglobin Estimation (Kleihauer)
Bone Marrow staining for Perls Stain

Haemostasis

Materials/Products

Platelet poor plasma; Platelet rich plasma; Serum, Whole blood

Types of Examination/Technical Field

Haemostasis parameters by Stago Max 3 analyser using the following methods:

- Routine haemostasis screen by mechanical clot detection
- Extended haemostasis screen/correction studies by mechanical detection
- Anticoagulant (indirect) monitoring by mechanical clot detection
- Anticoagulant (indirect) monitoring by chromogenic anti Xa assay
- Fibrin breakdown products quantitation by Latex Immunoturbidometric assay
- Intrinsic factor assay by one stage mechanical clot detection
- Extrinsic factor assay by one stage mechanical clot detection
- Extrinsic factor assay (FVIII) by chromogenic assay
- Factor inhibitor assays (modified Bethesda assay) by mechanical clot detection
- Lupus Anticoagulant testing by mechanical clot detection
- Thrombophilia screen testing by mechanical clot detection, Chromogenic and Latex Immunoturbidometric assay
- Von Willebrand Screen (activity and antigen) by Immunoturbidometric assay
- VWF Multimer Studies by Western blot method

The following platelet and platelet associated parameters by the following method:

- Platelet function assay (Epi and ADP) by Siemens PFA 200
- Platelet aggregation studies by Helena AggRAM light transmission aggregometer
- HIT screen by Stago STic Expert Kit by ICT
- ADAMTS 13 by inhouse developed FRET assay

Special Haematology

Materials/Products

Blood; Urine, Bronchial fluids; Bone marrow; CSF

Types of Examination/Technical Field

Red cell enzyme deficiencies by the following methods:
G6PD Screen (qualitative) by fluorescence spot test

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G6PD assay (quantitative) by spectrophotometry
Pyruvate Kinase Screen (qualitative) by fluorescence spot test

Special staining and light microscopy by/for the following techniques:
Heinz Body by supravital stain
Urinary hemosiderin by Perls stain

Haemoglobinopathy/Thalassaemia screen by the following methods:
Sickle solubility test (qualitative)
Isopropanol stability test
Alkali Gel electrophoresis by Sebia Hydrasys System
Reporting of HPLC and Capillary electrophoresis results (performed by protein lab)

Surface Markers/Flow Cytometry for Haematological Neoplasms

Materials/Products

Blood; Apheresis products; FNA; Tissue; Bone marrow; CSF; Other fluids

Types of Examination/Technical Field

The following Flow Cytometry assays use Beckman Coulter Navios cytometer and Navios and/or Kaluza Software:

Stem cell (CD34) enumeration using the following techniques:
Beckman Coulter Stem-Kit: Single platform, ISHAGE gating and viability dye

FoetoMaternal Haemorrhage quantitation using the following techniques:
QuikQuant Kit (anti-HbF)

Paroxysmal Nocturnal Haemoglobinuria (PNH) quantitation using the following techniques:
Red cells, Granulocytes and Monocytes assessed for PNH clones by inhouse gating

Chronic lymphoproliferative disorders screenings designed to identify, monitor and phenotype the following:
B-Cell clonal disorders
T-Cell clonal disorders
NK-Cell disorders
Myeloma/Plasma cell dyscrasias
Systemic Mastocytosis (flow cytometry to aid diagnosis, other tests required for confirmation of this disorder)

Acute leukaemia screening designed to identify, monitor and phenotype the following:
B-Lymphoblastic Acute Leukaemia
T-Lymphoblastic Acute Leukaemia
Acute Myeloid Acute Leukaemia
Acute Mixed-Phenotype, Ambiguous or Undifferentiated Leukaemia

Minimal Residual Disease detection designed to be used in the monitoring of:
B-Lymphoblastic Leukaemia

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Histology

Materials/Products

Fresh tissue; Frozen tissue; Fixed tissue; Cell blocks; Bone

Types of Examination/Technical Field

Sample Registration

Return to patient process

Processing and cutting of frozen sections using the Leica Cryostat CM1860

Manual staining of frozen sections (H&E only)

Manual staining of imprints (H&E only)

Grossing of samples for histological examination

Use of Milestone Ultra Gross/TekMed standalone benches

Includes the use of WinScribe dictation software

Digital photography using Macropath camera/software

Processing of formalin fixed tissue using the Leica Peloris III tissue processor(s)

Embedding of formalin fixed tissue using the Leica Arcadia H embedding stations

Microtomy of paraffin embedded tissues using Leica Autocut and Biocut Microtomes

Staining of tissue by the following methods:

Automated by Leica Spectra (H&E only)

Automated special stains by Roche Ventana

Manual staining (special stains)

Immunohistochemistry, Immunofluorescence and In-situ hybridisation by Ventana Benchmark

Ultra and Ventana Benchmark Ultra plus

Morphological assessment, interpretation and diagnosis by

Conventional light microscopy

Immunology

Autoimmune Serology

Materials/Products

CSF; Serum; Plasma

Types of Examination/Technical Field

Dynex automated ELISA analyser and/or manual methods for the following analytes:

Anti-Saccharomyces cerevisiae antibodies (ASCA)

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Glutamic Acid Decarboxylase Antibodies
IA2 antibodies
Intrinsic Factor

Bioflash Chemiluminescence analyser for the following analytes:

Myeloperoxidase antibodies
Proteinase 3 antibodies
Glomerular Basement membrane antibodies
CCP antibodies
Anti- Cardiolipin IgG and IgM
Anti-Beta-2 Glycoprotein IgG

Beeline Indirect Immunofluorescence (IFA) Processor and/or Manual for the following analytes;

Antinuclear antibodies (screen and titre)
ANCA
Tissue autoantibodies (SMA, AMA, GPC, LKM; reticulin)
Endomysial antibodies
Adrenal antibodies
Ovarian antibodies
F-Actin
Autoimmune encephalitis (NMDA-R; AMPA; GABAb; LGI1; CASPR2)
NMDA-R
Phospholipase A2 receptor antibodies
NMO spectrum disorder antibodies: (NMO, MOG)
Skin antibodies (pemphigus; pemphigoid)

Line Immunoassay (immunoblot): Manual methods for the following analytes:

Myositis antibodies: HMGCR, CN1A, Ro52, OJ, EJ, PL12, PL7, SRP< Jo-1, PM-SCL, KU, SAE-1, NXP2, MDA5, TIF1g, Mi2

Scleroderma antibodies: SCL70, CENP, RNA polymerase, Fibrillarin, NOR-90, ThTo, PMScI, Ku, PDGFR, Ro-52

Histone antibodies

Paraneoplastic (neuronal) antibodies: Amphiphysin; CV2/CRMP5; Ma/Ta; Ri; Yo; Hu, SOX1; Titn, GAD-65; Tr

Liver autoantibodies: AMA-M2; M2,3-E; SLA/LP; LC-1; SP100; GP210; Ro-52

Phadia 250 Fluorescence Immunoassay for the following analytes:

Tissue Transglutaminase (TTG) IgA
Tissue Transglutaminase (TTGG) IgG

Radioimmunoassay (RIA): Manual method for the following analytes:

Acetylcholine receptor antibodies
dsDNA antibodies

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Counter-current Immunoelectrophoresis (CIEP): Manual method for the following analytes:
ENA: (Ro; La; Sm; RNP; SCL70; Jo1; PMScl; Ribosomal P; PCNA; Ku; Mi2)
HMGCR confirmation
C3 Nephritic factor

Immunochemistry

Materials/Products

Serum; Plasma; CSF

Types of Examination/Technical Field

Immunological Flow Cytometry

Materials/Products

EDTA whole blood

Types of Examination/Technical Field

Flow Cytometry using the Navios and manual preparation for the following analytes:
Lymphocyte subsets (CD4+, CD8+ T cells; CD19 B cells; CD16/56+ NK cells)
Double negative T cells (CD3+TCR $\alpha\beta$ +CD4-CD8-)
B cell subsets: (CD19+IgD-CD27+ smB cells)
Neutrophil oxidative burst (DHR)
Lymphocyte proliferation

Microbiology

Bacteriology

Materials/Products

Urine; Blood; Swabs; Sputum/Respiratory samples; CSF; Other body fluids; Aspirates; Faeces; Tissue; Bone;
Sterility testing (Bronchoscopes, Endoscopes); Sterility testing (Environmental); Screening donor faeces for
transplantation

Types of Examination/Technical Field

The following bacteriological parameters by direct, phase and polarized microscopy:
Stained films
Cell counts
Crystal identification

Automated dipstick urinalysis by Cobas U 411 by:
Reflectance photometry

Automated urinalysis by Beckman Coulter DXU 850M Iris using:
Auto particle recognition

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Blood culture analysis by BD Bactec FX
Fluorescence

Bacterial culture using the following techniques:
Manual inoculation of agars and enrichment broths

Bacterial identification using the following techniques:
Manual stain and light microscopy
Chromogenic agars
Manual biochemical tests
Latex agglutination
Immunochromatographic Tests
Serotyping
Bruker Maldi-ToF - mass spectrometry
BD MAX - Real time PCR
GeneXpert - real time PCR
Illumina MiSeq - 16S Sequencing

Antibiotic susceptibility testing - manual techniques:
Disc diffusion
MIC Strips, Broth microdilution - EUCAST/CLSI
Biochemical tests

Antibiotic susceptibility testing - automated technique:
BD Phoenix and M50 - Growth based and Colorimetric
BD MAX - Real time PCR
GeneXpert - real time PCR

Parasitology

Materials/Products

Faeces; Urine; Tissue; Skin; Respiratory samples; Blood

Types of Examination/Technical Field

Detection of parasites using:
Microscopy - direct and concentrated
Microscopy - stained film
ICT
Molecular (BDMax)

Mycology

Materials/Products

Skin scrapings; Nail clippings; Hair; CSF; Other body fluids; Bone marrow; Tissue; Respiratory samples; Swabs

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Types of Examination/Technical Field

Detection of fungi using:
Microscopy

Fungal culture using the following techniques:
Manual culture of agar plates and slopes

Fungal identification using the following techniques:
Morphology
Wet prep and phase contrast microscopy
Manual stain and fluorescent microscopy
Chromogenic Agar
Latex agglutination Biochemical tests
Serological and immunological tests
Mass spectrometry using Bruker Biotyper Sirius One
Molecular techniques - BD MAX and Illumina MiSeq - 18S Sequencing

Antifungal susceptibility testing using the following techniques:
Broth microdilution

Mycobacteriology

Materials/Products

Sputum/Respiratory samples; CSF; Urine; Other body fluids; Aspirates; Tissue; Bone marrow

Types of Examination/Technical Field

Detection of mycobacteria using:
Microscopy
Molecular (GeneXpert)

Manual mycobacterial culture using agar slopes

Automated continuous monitoring system using the MIGIT by:
Colorimetry

Identification of mycobacteria – manual techniques:
Stain and fluorescent microscopy
Biochemical Tests

Identification of mycobacteria – Automated techniques:
GeneXpert – real time PCR
Bio-Rad CFX96Dx – real time PCR
SeqStudio – real time PCR
Illumina MiSeq – Next Gen Sequencing

Antimicrobial susceptibility testing:
MGIT – Phenotypic testing

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GeneXpert – real time PCR
Bio-Rad CFX96Dx – real time PCR
SeqStudio – real time PCR
Illumina MiSeq – Next Gen Sequencing

Molecular Microbiology

Materials/Products

Swabs, Faeces; Sputum/Respiratory samples; Tissue; Aspirates

Types of Examination/Technical Field – Refer to details above

DNA extraction
RNA extraction
Real time PCR
NAAT including RT PCR
Conventional PCR
DNA sequencing (Sanger or First Generation)
Next Generation Sequencing
Sequence analysis

Mortuary

Level 3: Mortuary with a post-mortem suite for forensic, coronial and hospital cases – with additional infrastructure and personnel expertise to perform high risk or specialised post-mortems

Materials/Products

Tūpāpaku/Deceased

Type of Examination/Technical Field

Body storage
Post-mortem investigations

Patient Services

Canterbury Health Laboratories	Type of Examination / Technical Field
Christchurch Hospital / Outpatients	Venepuncture collections Capillary collections Collection of Mycology specimens (skin, nail, hair) Receipt of other specimens (urine, faeces) Collection of urine for evidential drug testing Mantoux Testing Specimen preparation for transportation
Christchurch Hospital Wards	Venepuncture collections Capillary collections

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Christchurch Women's Hospital Outpatients	Venepuncture collections Capillary collections Receipt of other specimens (urine, faeces) Glucose Tolerance Tests Specimen preparation for transportation
Christchurch Women's Hospital Wards	Venepuncture collections Capillary collections
Burwood Hospital Outpatients	Venepuncture collections Capillary collections Collection of Mycology specimens (skin, nail, hair) Receipt of other specimens (urine, faeces) Specimen preparation for transportation
Burwood Hospital Wards	Venepuncture collections Capillary collections

Point-of-care testing

Ashburton Hospital	Materials/Products: Whole blood
Laboratory	Roche CoaguChek Pro II PR / INR by test strip based – electrochemical
Diabetes Clinic	Siemens DCA Vantage HbA1C by latex agglutination
Wards (refer to PoCT schedule)	Roche CoaguChek Pro II PR / INR by test strip based – electrochemical Roche Accu-Chek inform II Glucose by enzymatic / electrochemical
Acute Assessment Unit	Abbott i-STAT using the following cartridges: CG4+cartridge CHEM8+cartridge Nova Biomedical Statstrip Ketones by test strip based – electrochemical

Burwood Hospital	Materials/Products: Whole blood
Special Care Unit	Abbott i-STAT using the following cartridges: CG4+cartridge CHEM8+cartridge Roche CoaguChek Pro II PR / INR by test strip based – electrochemical

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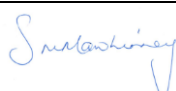
	HemoCue Haemoglobin by modified azide methaemoglobin reaction Nova Biomedical Statstrip Ketones by test strip based - electrochemical
PACU	HemoCue Haemoglobin by modified azide methaemoglobin reaction
Orthopaedic Outpatients Department	HemoCue Haemoglobin by modified azide methaemoglobin reaction
Theatre	HemoCue Haemoglobin by modified azide methaemoglobin reaction
Wards (refer to PoCT schedule)	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical Roche Accu-Chek inform II Glucose by enzymatic / electrochemical
Christchurch Hospital	Materials/Products: Whole blood
Department of Anaesthetics	Biochemical parameters by ABL90 Flex Plus using the following techniques: Direct ISE, absorbance and reflectance Nova Biomedical Statstrip Ketones by test strip based - electrochemical HemoCue Haemoglobin by modified azide methaemoglobin reaction Hemochron Signature Elite Activated Clotting Time by clot detection
ICU	Biochemical parameters by ABL90 Flex Plus using the following techniques: Direct ISE, absorbance and reflectance
PACU East	HemoCue Haemoglobin by modified azide methaemoglobin reaction Nova Biomedical Statstrip Ketones by test strip based - electrochemical
Interventional Radiology	Hemochron Signature Elite Activated Clotting Time by clot detection Roche CoaguChek Pro II
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	PR / INR by test strip based - electrochemical
Emergency Department	Clinitek Status Plus Urinalysis by reflectance photometry
Cardiology Day Unit	Hemochron Signature Elite Activated Clotting Time by clot detection Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Children's Emergency Care	Clinitek Status Plus Urinalysis by reflectance photometry
Paediatric Outpatients Department	Siemens DCA Vantage HbA1C by latex agglutination Clinitek Status Plus Urinalysis by reflectance photometry
Diabetes Centre	Siemens DCA Vantage HbA1C by latex agglutination
Haemostasis Clinic	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Gastro Day Unit	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Wards (refer to PoCT schedule)	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical Roche Accu-Chek inform II Glucose by enzymatic / electrochemical
Christchurch Women's Hospital	Materials/Products: Whole blood
NICU (level 4)	Biochemical parameters by ABL90 Flex Plus using the following techniques: Direct ISE, absorbance and reflectance
Birthing Suite (level 3)	Biochemical parameters by ABL90 Flex Plus using the following techniques: Direct ISE, absorbance and reflectance Nova Biomedical Statstrip Lactate by test strip based - electrochemical
Birthing Suite/PACU	HemoCue Haemoglobin by modified azide methaemoglobin reaction

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Christchurch Women's Hospital Outpatients Department	HemoCue Haemoglobin by modified azide methaemoglobin reaction Roche Accu-Chek inform II Glucose by enzymatic / electrochemical Clinitek Status Plus Urinalysis by reflectance photometry
PACU West	HemoCue Haemoglobin by modified azide methaemoglobin reaction
Day Surgery	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Wards (refer to PoCT schedule)	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical Roche Accu-Chek inform II Glucose by enzymatic / electrochemical

Sexual Health	Materials/Products: Whole blood
Laboratory	Clinitek Status Plus Urinalysis by reflectance photometry

St George's Hospital	Materials/Products: Whole blood
Theatre 8	Abbott i-STAT using the following cartridges: CHEM8+cartridge
ICU	Abbott i-STAT using the following cartridges: CHEM8+cartridge

Southern Cross Hospital	Materials/Products: Whole blood
PACU/Theatre	Abbott i-STAT using the following cartridges: CHEM8+cartridge

Forte Health	Materials/Products: Whole blood
Recovery Ward	Abbott i-STAT using the following cartridges: CHEM8+cartridge CG4+cartridge

Kaikoura Hospital	Materials/Products: Whole blood
Setup room	Abbott i-STAT (cartridge based)

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	CG4+cartridge CHEM8+cartridge hs-TnI PixCell HemoScreen Full Blood Count by digital imaging, AI and flow cytometry Roche Cobas b101 CRP by immunoturbidimetry
Medical Centre	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Wards (refer to PoCT schedule)	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical Roche Accu-Chek inform II Glucose by enzymatic / electrochemical
Hillmorton Hospital	Materials/Products: Whole blood
Wards (refer to PoCT schedule)	Roche CoaguChek Pro II PR / INR by test strip based – electrochemical Roche Accu-Chek inform II Glucose by enzymatic / electrochemical
General Practitioner's Surgeries	Materials/Products: Whole blood
Bealey Ave A & E (Pegasus Health 24 Hour Surgery)	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Cheviot Community Health Centre	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Halswell Health	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Riccarton Clinic	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Amuri Community Health Centre	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Hanmer Springs Medical Centre	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Pharmacies	Materials/Products: Whole blood

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Allenton (Searles) Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Barrington Health Centre Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Bells Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Eastern Pharmacy Aranui	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Fendalton Mall Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Healthworks Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Leeston Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Oxford Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
QE II Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Rangiora Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based – electrochemical
Unichem Rolleston	Roche CoaguChek Pro II PR / INR by test strip based – electrochemical
St Martins Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Unichem Bishopdale	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Unichem Brighton Village	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Medical Corner Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Unichem Fenwicks Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Life Pharmacy Rangiora	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Unichem Community Pharmacy Linwood	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical
Woodham Rd Pharmacy	Roche CoaguChek Pro II PR / INR by test strip based - electrochemical

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Serology

Materials/Products

Serum; BAL; CSF

Types of Examination/Technical Field

Extended Viral Serology / Bacterial / Parasitic / Fungal Serology

Hepatitis A,B,C,HIV markers by:

Automation-Abbott Alinity-i, Immunoassay, CMIA

CMV, Toxoplasma, Syphilis, EBV, Rubella, Measles, Mumps, Varicella, HSV, HTLV, Toxo Avidity, CMV Avidity and Quantiferon Markers by:

Automation - DiaSorin Liaison, using CLIA

Galactomannan, Hepatitis E, Bartonella, Parvovirus, Leptospira markers by:

Automation-Vircell VirClia Lotus, using CLIA

Streptococcal ASO by:

Automation-Beckman Coulter DxC 700AU, using Immuno-turbidimetry

Streptococcal DNaseB by:

Automation-Siemens BNII, using Nephelometry

Chikungunya/Dengue/Zika markers, Strongyloides by:

Automation - Dynex DS2, using ELISA

Entamoeba histolytica, Hydatid, Schistosoma, Syphilis TPHA by:

Manual, using Haemagglutination

HIV confirmation by:

Biorad Geenius, using Immunochromatographic

Syphilis RPR by:

Manual, using macroscopic flocculation

Syphilis IgM by:

Manual, using Capture Sandwich ELISA

Specimen Services

Specimen reception

Data registration

Specimen preparation for transport to a national referral laboratory

Specimen preparation for transport to an international referral laboratory

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Call Centre

Virology

Materials/Products

Blood; Urine; Swabs; Faeces; Sputum/Respiratory samples; CSF; Tissue; Aspirates; Other body fluids

Types of Examination/Technical Field

Nucleic Acid extraction using:

BioMérieux EMAG

BioMérieux Easymag

Seegene STARlet with Universal extraction kit

Real time PCR using:

ABI7500

Seegene CFX,

Lightcycler480

Nucleic acid extraction using:

QIAmp UCP Pathogen Kits by Qiagen

Nucleic acid extraction and real time PCR using:

BD MAX system

GeneXpert

Abbott Alinity

Conventional PCR using:

Applied Biosystems Veriti 96 and

ProFlex thermocycler

DNA sequencing using:

SeqStudio or

ABI3500xL Genetic Analyser

Sequencing analysis using CLC workbench

NAAT using BioMérieux Biofire film array

Toxicology and Workplace Drug Testing

In accordance with the general requirements of the Australian/New Zealand Standard AS/NZS 4308:2023 'Procedures for specimen collection and the detection and quantitation of drugs of abuse in urine' and Australian/New Zealand Standard AS/NZS 4760:2019 'Procedures for specimen collection and the detection and quantitation of drugs in oral fluids'

Materials/Products

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Blood; Plasma; Serum; Urine

Types of Examination/Technical Field

Toxicology by Beckman Coulter DxC700 using the following techniques:

Automation Kinetic

Automation Enzymatic

Urine drug metabolite screen and confirmation by the following techniques:

LC-MS/MS using Agilent LC-MS/MS 6475

LC-QToF-MS using Sciex X500R QToF

Oral Fluid drug metabolite confirmation by the following technique

LC-MS/MS using Agilent LC-MS/MS 6475

Plasma and Serum TDM using the following techniques:

LC-MS/MS using Agilent LC-MS/MS 6475

LC-QToF-MS using Sciex X500R QToF

HPLC using Agilent 1200 and 1290 series HPLC systems

Plasma and urine Occupational Health screening

GC-FID using Agilent 7890B gas chromatograph

GC-MS/MS using Agilent 7000D GC-Triple Quad

GC-NPD USING Agilent 8890 gas chromatograph

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