



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
Workplace Drug Testing

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SCOPE OF ACCREDITATION

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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; Urine

Types of Examination/Technical Field

Automation ISE Indirect
Automation Colorimetric
Automation Enzymatic
Automation Immunoassay
Blood Gases/Electrolytes/Metabolites
Miscellaneous manual tests

Endocrinology

Materials/Products

Plasma; Serum

Types of Examination/Technical Field

Automation Immunoassay

Haematology

General Haematology

Materials/Products

Blood

Types of Examination/Technical Field

Full Blood Count
Blood film preparation and staining - manual
Blood film examination - microscopy
ESR - manual
Infectious Mononucleosis Screening
Malarial parasites
Other blood parasites

Haemostasis

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Materials/Products

Whole blood

Types of Examination/Technical Field

Coagulation Screen (PT only)

Molecular Microbiology

Materials/Products

Sputum/Respiratory samples (including nasopharyngeal swabs)

Types of Examination/Technical Field

NAAT including RT PCR

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 Glucose Tolerance Tests

Specimen Services

Specimen reception

Specimen preparation and storage - manual

Data registration

Specimen preparation for transport to a national referral laboratory

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Transfusion Medicine

Type of Examination/Technical Field

Storage and issue of blood components and products

Christchurch Hospital

Biochemistry

General Biochemistry

Materials/Products

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

Types of Examination/Technical Field

Automation ISE Indirect
Automation Colorimetric
Automation Enzymatic
Automation Immunoassay
Therapeutic drug monitoring
Blood Gases/Co-oximetry/Electrolytes/Metabolites
Osmolality
Miscellaneous manual tests

Immunochemistry

Materials/Products

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

Types of Examination/Technical Field

Nephelometry
Electrophoresis (performed in Proteins Laboratory)
Immunofixation (performed in Proteins Laboratory)
Automated HPLC D-100

Endocrinology

Materials/Products

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

Types of Examination/Technical Field

Automation Immunoassay

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RIA
ELISA - manual
LC-MS/MS (Performed in Specialist Biochemistry)

Toxicology

Materials/Products

Blood; Plasma; Serum; Urine

Types of Examination/Technical Field

Automation Immunoassay
Spectrophotometric
TLC
GC
HPLC
LC-MS/MS

Trace Metals (Performed in Specialist Biochemistry)

Materials/Products

Blood; Plasma; Urine; Tissue; Other body fluids

Types of Examination/Technical Field

ICP-MS

Specialist Biochemistry

Materials/Products

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

Types of Examination/Technical Field

Spectrophotometric
Colorimetric
Enzymatic
ELISA
HPLC
LC-MS/MS
FT-IR
Miscellaneous manual tests
Sweat tests

Cytology

Non-gynaecological Cytology

Materials/Products

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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

SurePath LBC
Conventional methods
FNA Cytology

Genetics

Cytogenetics

Materials/Products

Blood; Bone Marrow; Amniotic Fluid; Chorionic Villus tissue; Other tissues – non-malignant; Other tissues – malignant; Formalin-fixed, Paraffin-embedded (FFPE) tissue

Types of Examination/Technical Field

Tissue Culture
Chromosome preparation
Conventional G-banding
Other banding techniques
Fluorescence in-situ hybridisation (FISH)
Chromosome analysis
Molecular karyotyping
Quantitative fluorescent PCR
Variant curation

Molecular Pathology

Materials/Products

Blood; Bone marrow; Amniotic Fluid; Chorionic Villus tissue; Other tissues – non-malignant; Other tissues – malignant; Formalin-fixed, Paraffin-embedded (FFPE) tissue; Buccal swabs; Saliva; Urine; Guthrie spots

Types of Examination/Technical Field

DNA extraction
RNA extraction
PCR
Real time RT-PCR
DNA sequencing (Sanger or First Generation)
DNA sequencing (Massively Parallel or Next Generation)
Sequence analysis
ddPCR
SNP genotyping
Copy number analysis
Fragment analysis

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Variant curation

Molecular Oncology

Materials/Products

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

Types of Examination/Technical Field

DNA extraction
RNA extraction
PCR
Real time PCR
DNA sequencing (Massively Parallel or Next Generation)
Sequence analysis
ddPCR
SNP genotyping
Copy number analysis
Fragment analysis
Variant curation

Haematology

General Haematology

Materials/Products

Blood; Bone marrow

Types of Examination/Technical Field

Full Blood Count
Reticulocyte Count
Blood film preparation and staining - manual
Blood film preparation and staining - automated
Blood film examination - microscopy
Blood film examination - digital morphology
ESR - manual
ESR - automated
Infectious Mononucleosis Screening
Foetal Haemoglobin Estimation (Kleihauer)
Malarial parasites
Other blood parasites
Bone marrow aspirate/trephine biopsy examinations

Haemostasis

Materials/Products

Plasma; Serum

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Types of Examination/Technical Field

Coagulation Screen (PT, APTT, Fibrinogen)
Extended Coagulation Screen
Thrombin Clotting Time
Factor VIII
Other specific factor assays
D-Dimer (quantitative)
Lupus Anticoagulant Screen
Thrombophilia Screen
Von Willebrand Screen
Platelet Function Assay
Platelet Aggregation Studies
HIT screen
Heparin assays
Factor inhibitor assays
Direct oral anticoagulant assays

Haemolytic Anaemia Investigations

Materials/Products

Blood; Urine

Types of Examination/Technical Field

G6PD screen
G6PD assay
PK screen
Urinary Haemosiderin
Haemoglobinopathy/Thalassaemia screen
Heinz Body
Sickle Cell screen

Miscellaneous Specialist Manual Testing

Materials/Products

Blood; Bronchial fluids; Bone marrow; CSF

Types of Examination/Technical Field

Staining techniques
Microscopy assessments

Flow Cytometry

Materials/Products

Blood; Stem Harvest Cells; FNA; Tissue; Bone marrow; CSF; Other fluids

Types of Examination/Technical Field

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Diagnostic and Follow - up Immunophenotyping
Stem Cell Enumeration
Foetal and F cell quantitation

Histology

Materials/Products

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

Types of Examination/Technical Field

Routine H&E stains
Special stains
Frozen sections
Imprints
Immunohistochemistry
Immunofluorescence
In situ hybridisation (ISH)

Immunology

Autoimmune Serology

Materials/Products

Serum; Plasma

Types of Examination/Technical Field

ELISA - manual
IFA - manual
IFA - automated
RIA
Immunoblot
FEIA (fluorescent enzyme immunoassay)
CLIA (chemiluminescence)
CIEP (counter current immunoelectrophoresis)

Immunochemistry

Materials/Products

Serum

Types of Examination/Technical Field

Electrophoresis

Allergy Testing

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Materials/Products

Serum; Plasma

Types of Examination/Technical Field

IgE specific antibodies - FEIA

Total IgE - FEIA

Tryptase – FEIA

Specific IgG - FEIA

Flow Cytometry

Materials/Products

Blood

Types of Examination/Technical Field

Immune Deficiency Studies

Microbiology

Bacteriology

Materials/Products

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

Types of Examination/Technical Field

Urine Dipstick - automated

Urine Microscopy - manual

Urine Microscopy - automated

Microscopy - various techniques

Rapid antigen detection tests

Culture - various techniques

Identification of organisms - conventional manual methods

Identification of organisms - automated colorimetric

Identification of organisms - automated mass spectrometry (MALDI-TOF)

Antibiotic susceptibility testing - conventional manual methods

Antibiotic susceptibility testing - automated

MDRO screening/detection

Crystal identification

Sterility testing (Bronchoscopes, Endoscopes)

Sterility testing (Environmental)

Screening donor faeces for transplantation

Parasitology

Materials/Products

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Faeces; Urine; Tissue; Skin; Respiratory samples; Other body fluids

Types of Examination/Technical Field

Microscopy - various techniques
Concentration
Rapid antigen detection tests

Mycology

Materials/Products

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

Types of Examination/Technical Field

Microscopy - various techniques
Culture
PCR
Identification of fungi
Antifungal susceptibility testing

Mycobacteriology

Materials/Products

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

Types of Examination/Technical Field

Microscopy - various techniques
Culture - conventional techniques
Culture - MGIT
Identification of mycobacteria
Antimicrobial susceptibility testing

Molecular Microbiology

Materials/Products

Faeces; Sputum/Respiratory samples (including nasopharyngeal swabs); Tissue; Aspirates

Types of Examination/Technical Field

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

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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 Receipt of other specimens (urine, faeces) Collection of urine for evidential drug testing Mantoux Testing Specimen preparation for transportation
Christchurch Hospital Wards	Venepuncture collections
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
Burwood Hospital Outpatients	Venepuncture collections Capillary collections Receipt of other specimens (urine, faeces) Specimen preparation for transportation
Burwood Hospital Wards	Venepuncture collections

Point-of-care testing

*In accordance with the general requirements of the International Standard ISO 22870:2016
'Point-of-care testing (POCT) – Requirements for quality and competence'*

Ashburton Hospital	Materials/Products: Whole blood
Laboratory	Blood Gases / Electrolytes / Metabolites / Creatinine Glucose

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	PR / INR
Diabetes Clinic	HbA1C
Wards (refer to PoCT schedule)	Glucose
Acute Assessment Unit	Ketones

Burwood Hospital	Materials/Products: Whole blood
Special Care Unit	Blood Gases / Electrolytes / Metabolites Haemoglobin / Creatinine PR / INR; Ketones
PACU	Haemoglobin
Orthopaedic Outpatients Department	Haemoglobin
Theatre	Haemoglobin
Wards (refer to PoCT schedule)	Glucose

Christchurch Hospital	Materials/Products: Whole blood; Plasma; Urine
Department of Anaesthetics (Theatre 9)	Blood Gases / Electrolytes / Metabolites Ketones Haemoglobin Activated Clotting Time
ICU	Blood Gases / Electrolytes / Metabolites
PACU East	Haemoglobin; Ketones
DSA (Radiology)	Activated Clotting Time PR/INR
Emergency Department	Urinalysis
Cardiology Day Unit	Activated Clotting Time PR / INR
Children's Acute Assessment Unit	Urinalysis
Paediatric Outpatients Department	HbA1C Urinalysis
Diabetes Centre	HbA1C
Haemostasis Clinic	PR / INR
Sexual Health	Urinalysis
Gastro Day Unit	PR / INR
Wards (refer to PoCT schedule)	Glucose

Christchurch Women's Hospital	Materials/Products: Whole blood; Urine
NICU (level 4)	Blood Gases / Electrolytes / Metabolites / Bilirubin
Birthing Suite (level 3)	Blood Gases Whole Blood Lactate
Birthing Suite/PACU	Haemoglobin
Maternity Outpatients Department	Urinalysis Haemoglobin
PACU West	Haemoglobin; Ketones
Day Surgery	PR / INR
Wards (refer to PoCT schedule)	Glucose

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St George's Hospital	Materials/Products: Whole blood
Theatre 8	Blood Gases / Electrolytes / Metabolites
ICU	Blood Gases / Electrolytes / Metabolites
Southern Cross Hospital	Materials/Products: Whole blood
PACU/Theatre	Blood Gases / Electrolytes / Metabolites
Kaikoura Hospital	Materials/Products: Whole blood
Setup room	Blood Gases / Electrolytes / Metabolites / Creatinine / Troponin I; CBC; CRP
Medical Centre	PR / INR
Wards (refer to PoCT schedule)	Glucose
Princess Margaret Hospital	Materials/Products: Whole blood
Wards (refer to PoCT schedule)	Glucose
Hillmorton Hospital	Materials/Products: Whole blood
Wards (refer to PoCT schedule)	Glucose
Forte Health	Materials/Products: Whole blood
Recovery Ward	Blood Gases / Electrolytes / Metabolites Haemaoglobin
General Practitioner's Surgeries	Materials/Products: Whole blood
Bealey Ave A & E (Pegasus Health 24 Hour Surgery)	PR / INR
Cheviot Community Health Centre	PR / INR
Halswell Health	PR / INR
Riccarton Clinic	PR / INR
Amuri Community Health Centre	PR / INR
Hanmer Springs Medical Centre	PR / INR
Pharmacies	Materials/Products: Whole blood
Allenton (Searles) Pharmacy	PR / INR
Barrington Health Centre Pharmacy	PR / INR
Bells Pharmacy	PR / INR
Eastern Pharmacy Aranui	PR / INR
Fendalton Mall Pharmacy	PR / INR
Healthworks Pharmacy	PR / INR
Leeston Pharmacy	PR / INR
Oxford Pharmacy	PR / INR
Parklands Pharmacy	PR / INR
QE II Pharmacy	PR / INR
Rangiora Pharmacy	PR / INR
Unichem Rolleston	PR / INR

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St Martins Pharmacy	PR / INR
Unichem Bishopdale	PR / INR
Unichem Brighton Village	PR / INR
Medical Corner Pharmacy	PR / INR
Unichem Fenwicks Pharmacy	PR / INR
Life Pharmacy Rangiora	PR / INR
Unichem Community Pharmacy Linwood	PR / INR
Woodham Rd Pharmacy	PR / INR

Serology

Materials/Products

Serum; Plasma; Faeces; BAL; CSF

Types of Examination/Technical Field

Extended Viral Serology
Extended Bacterial/Parasitic/Fungal Serology
ELISA
IFA
ChLIA
Agglutination
Immunochromatographic assay
Colorimetric assay
Nephelometric assay

Specimen Services

Specimen reception
Data registration
Specimen preparation for transport to a national referral laboratory
Specimen preparation for transport to an international referral laboratory
Call Centre

Virology

General Virology

Materials/Products

Blood; Urine; Swabs; CSF

Types of Examination/Technical Field

Viral Culture
Immunofluorescence

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Molecular Virology

Materials/Products

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

Types of Examination/Technical Field

DNA extraction
RNA extraction
PCR and gel electrophoresis
Real time PCR and RT-PCR
DNA sequencing (Sanger or First Generation)
DNA Sequencing (Next Generation)
Sequence analysis

Workplace Drug Testing

In accordance with the general requirements of the Australian/New Zealand Standard AS/NZS 4308:2008 '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

Urine, Oral Fluid

Types of Examination/Technical Field

Laboratory drug screening: Immunoassay
Laboratory drug screening: Mass Spectrometry
Confirmatory testing: LC-MS/MS

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