



Canterbury - Health New Zealand

Canterbury Health Laboratories

Client Number 3684

PO Box 151, Christchurch Mail Centre, Christchurch, 8140
550 Hagley Ave (Cnr Hagley Avenue & Tuam Street), Christchurch, 8011

Telephone 03 364-0300

www.chl.co.nz

Authorised Representative

Dr Joanne Mitchell
Quality Manager

Programme

Healthcare Programmes

Accreditation Number 508

Initial Accreditation Date 28 January 1994

Conformance Standard

ISO 15189:2012

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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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

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Haemostasis

Materials/Products

Whole blood

Types of Examination/Technical Field

Coagulation Screen (PT only)

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

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; 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

Types of Examination/Technical Field

Turbidimetry - automated
ELISA - automated
Electrophoresis (performed in Proteins Laboratory)
Immunofixation (performed in Proteins Laboratory)
Radial Immunodiffusion (performed in Proteins Laboratory)

Endocrinology


Materials/Products

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

Types of Examination/Technical Field

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

Toxicology

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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

Gynaecological Cytology

Materials/Products

Cervical; Vaginal

Types of Examination/Technical Field

SurePath LBC - automated screening
SurePath LBC - manual screening

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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

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


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
Real time PCR
Real time RT-PCR
DNA sequencing (Sanger or First Generation)
DNA sequencing (Massive Parallel or Next Generation)
Sequence analysis
ddPCR

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SNP genotyping
Copy number analysis
Fragment analysis

Molecular Oncology

Materials/Products

Formalin-fixed, Paraffin-embedded (FFPE) tissue; Urine

Types of Examination/Technical Field

DNA extraction
Real time PCR
DNA sequencing (Massively Parallel or Next Generation)

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

Types of Examination/Technical Field

Coagulation Screen (PT, APTT, Fibrinogen)
Extended Coagulation Screen
Thrombin Clotting Time
Factor VIII

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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

Diagnostic Immunophenotyping
Stem Cell Transplantation
Foetal and F cell quantitation

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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
RIA
Agglutination
Immunoblot

Immunochemistry

Materials/Products

Serum

Types of Examination/Technical Field

Electrophoresis

Allergy Testing

Materials/Products

Serum; Plasma

Types of Examination/Technical Field

IgE specific antibodies - EIA
Total IgE - EIA
Tryptase - EIA

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Skin Prick Testing

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

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

Types of Examination/Technical Field

- Microscopy - various techniques
- Concentration
- Rapid antigen detection tests

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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
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 - first line antimicrobials

Molecular Microbiology (Performed in Virology)

Materials/Products

Faeces; Sputum/Respiratory samples; Tissue; Aspirates

Types of Examination/Technical Field

DNA extraction
RNA extraction
Real time PCR
Conventional PCR
DNA sequencing (Sanger or First Generation)
Sequence analysis


SARS-CoV-2 / Covid Testing

Materials/Products

Nasopharyngeal Swab
Saliva (surveillance only)

Types of Examination/Technical Field

NAAT including RT-PCR

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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

Cadavers

Type of Examination/Technical Field

Body storage
Post-mortem investigations

Patient Services

Canterbury Health Laboratories	Type of Examination / Technical Field
Christchurch Hospital Laboratory / Outpatients	Venepuncture collections Capillary collections Receipt of other specimens (urine, faeces) Collection of urine for evidential drug testing Collection of specimens for Synacthen testing (Endocrine Collection Centre) Glucose Tolerance Tests Mantoux Testing Specimen preparation for transportation
Christchurch Hospital Wards	Venepuncture collections
The Princess Margaret Hospital Wards	Venepuncture collections Collection of specimens for Synacthen testing
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
Hagley Outpatients	Venepuncture collections Capillary collections Receipt of other specimens (urine, faeces) Specimen preparation for transportation
Burwood Hospital Outpatients	Venepuncture collections

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	Capillary collections Receipt of other specimens (urine, faeces) Glucose Tolerance Tests 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 PR / INR
Diabetes Clinic	HbA1C
Wards (refer to PoCT schedule)	Glucose

Burwood Hospital	Materials/Products: Whole blood
Special Care Unit	Blood Gases / Electrolytes / Metabolites Haemoglobin PR / INR
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 Haemoglobin Activated Clotting Time
ICU	Blood Gases / Electrolytes / Metabolites
PACU East	Haemoglobin
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

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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
Day Surgery	PR / INR
Wards (refer to PoCT schedule)	Glucose
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
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

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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
Life Pharmacy The Palms	PR / INR
Oxford Pharmacy	PR / INR
Parklands Pharmacy	PR / INR
QE II Pharmacy	PR / INR
Rangiora Pharmacy	PR / INR
Unichem Rolleston	PR / INR
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

Types of Examination/Technical Field

Extended Viral Serology
Extended Bacterial/Parasitic Serology

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

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General Virology

Materials/Products

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

Types of Examination/Technical Field

Viral Culture
Immunofluorescence

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
Real time PCR
DNA sequencing (Sanger or First Generation)

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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