



**Canterbury Health Laboratories**

Canterbury District Health Board

**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'*

<b>Ashburton Hospital</b>	<b>Materials/Products:</b> Whole blood
Laboratory	Blood Gases / Electrolytes / Metabolites / Creatinine Glucose PR / INR
Diabetes Clinic	HbA1C
Wards (refer to PoCT schedule)	Glucose

<b>Burwood Hospital</b>	<b>Materials/Products:</b> 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

<b>Christchurch Hospital</b>	<b>Materials/Products:</b> 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
<b>Christchurch Women's Hospital</b>	<b>Materials/Products:</b> 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
<b>St George's Hospital</b>	<b>Materials/Products:</b> Whole blood
Theatre 8	Blood Gases / Electrolytes / Metabolites
ICU	Blood Gases / Electrolytes / Metabolites
<b>Southern Cross Hospital</b>	<b>Materials/Products:</b> Whole blood
PACU/Theatre	Blood Gases / Electrolytes / Metabolites
<b>Kaikoura Hospital</b>	<b>Materials/Products:</b> Whole blood
Setup room	Blood Gases / Electrolytes / Metabolites / Creatinine / Troponin I
Medical Centre	PR / INR
Wards (refer to PoCT schedule)	Glucose
<b>Princess Margaret Hospital</b>	<b>Materials/Products:</b> Whole blood
Wards (refer to PoCT schedule)	Glucose
<b>Hillmorton Hospital</b>	<b>Materials/Products:</b> Whole blood
Wards (refer to PoCT schedule)	Glucose
<b>Forte Health</b>	<b>Materials/Products:</b> Whole blood
Recovery Ward	Blood Gases / Electrolytes / Metabolites Haemaoglobin
<b>General Practitioner's Surgeries</b>	<b>Materials/Products:</b> 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
<b>Pharmacies</b>	<b>Materials/Products:</b> 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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