



**Pathlab Rotorua**

**Client Number 7551**

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**Authorised Representative**

Michaela Head  
Quality Officer/ Manager Taupo/Rotorua

**Programme**

Medical Testing Laboratory

**Accreditation Number 1005**

**Initial Accreditation Date 30 September 2008**

**Conformance Standard**

ISO 15189:2022  
Medical Laboratories - Requirements for quality and competence

**Laboratory Services Summary**

**Pathlab Rotorua, Rotorua Hospital**

Biochemistry  
Haematology  
Microbiology  
Patient Services  
Specimen Services  
Transfusion Medicine

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Pathlab Rotorua  
Medical Testing Laboratory

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**SCOPE OF ACCREDITATION**

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

**Pathlab Rotorua, Rotorua Hospital**

**Biochemistry**

**General Biochemistry**

**Materials/Products**

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

**Types of Examination/Technical Field**

Biochemical parameters by Beckman Coulter DxC AU700 and DxC AU480 autoanalyser(s) using the following techniques:

- Automation ISE Indirect
- Automation Kinetic
- Automation Turbidimetric
- Automation Enzymatic

Endocrine parameters by Beckman Coulter Dxl 600 Autoanalyser using the following techniques:

- Automation Chemiluminescent Immunoassay

Therapeutic drug monitoring by Beckman Coulter DxC700 autoanalyser using the following techniques:

- Automation Kinetic
- Automation Turbidimetric
- Automation Enzymatic

Osmolality Parameters by Osmo 1 using the following techniques:

- Depression of freezing point

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

- ISE Direct
- Absorbance and reflectance

**Specialist Biochemistry**

**Materials/Products**

Other body fluids

**Types of Examination/Technical Field**

Collection of sweat samples for iontophoresis testing

Other semi-quantitative, or qualitative parameters by manual or kit methodologies:

- Dipstick analysis (qualitative)

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**Haematology**

**General Haematology**

**Materials/Products**

Blood

**Types of Examination/Technical Field**

Full blood count parameters by Beckman Coulter DxH 900 haematology analyser(s) using the following techniques:

- Volume (impedance)
- Conductivity (radio frequency)
- Scatter (flow cytometry)
- Photometry

Peripheral Blood film preparation and staining by the following technique:

- Automated smear and stain using Beckman Coulter DxH SMS
- Manual smear and stain baths/coplin jars
- Special staining for malaria and other blood parasites

Blood film examination by light microscopy:

- Automated digital method by Vision Haema
- Manual conventional method
- Malaria (thick and thin films) and other blood parasite screen

Erythrocyte Sedimentation Rate by the following technique:

- Automated modified Westergren by Elitech Microsed
- Manual modified Westergren method

Foetal Haemoglobin Estimation:

- Acid elution (Kleihauer) stain and examination by light microscopy

Other semi-quantitative, or qualitative parameters by manual or kit methodologies:

- Immunochromatographic technique

Bone marrow aspirate/trephine biopsy examinations (preparation only)

**Haemostasis**


**Materials/Products**

Plasma

**Types of Examination/Technical Field**

Haemostasis parameters/profiles by IL ACL350 analyser using the following techniques:

- Routine haemostasis screen by optical clot detection

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**SCOPE OF ACCREDITATION**

Fibrin Breakdown product(s) quantitation by Latex Immunoturbidimetric assay

**Special Haematology**

**Materials/Products**

Blood

**Types of Examination/Technical Field**

Blood film preparation and staining by the following technique:

Manual supravital stains and examination by light microscopy

**Microbiology**

**Bacteriology**

**Materials/Products**

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

**Types of Examination/Technical Field**

Urine and fluid cell counts by the following techniques:

Light microscopy

Phase contrast microscopy

Blood culture analysis by Bactec FX using:

Fluorescence

Bacterial culture using the following techniques:

Manual inoculation of agars and broths

Bacterial identification using the following techniques:

Manual stain and light microscopy

Rapid Antigen Test (ICT)

Antimicrobial susceptibility testing using the following techniques:

Disk diffusion (EUCAST / CLSI)

**Molecular Pathology**

**Materials/Products**

Sputum/Respiratory samples/Nasopharyngeal Swab

**Types of Examination/Technical Field**

NAAT by GeneXpert using the following cartridges:

Xpress CoV-2/Flu/RSV plus

Nucleic acid extraction and amplification for molecular testing using BD Max and the following techniques:

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Real Time PCR

**Patient Services**

Pathlab Rotorua	Type of Examination / Technical Field
Haupapa Street	Venepuncture collections Capillary collections Receipt of other specimens (urine, faeces, swabs) Collection of Mycology specimens (skin, nail, hair) Collection of specimens for Scabies investigations Collection of specimens for paternity testing Glucose Tolerance Tests Home visit collections Specimen preparation for transportation
Rotorua Hospital Outpatients	Venepuncture collections Capillary collections Collection of Mycology specimens (skin, nail, hair) Glucose Tolerance Tests Lactose Tolerance testing Skin Allergy Testing Therapeutic Venesections
Rotorua Hospital Wards	Venepuncture collections Capillary collections Collection of Mycology specimens (skin, nail, hair) Collection of specimens for Scabies investigations Glucose Tolerance Tests Skin Allergy Testing Therapeutic Venesections
Ngongotaha Medical Centre	Venepuncture collections Capillary collections Receipt of other specimens (urine, faeces, swabs) Collection of Mycology specimens (skin, nail, hair) Glucose Tolerance Tests
Te Ngae Medical Centre	Venepuncture collections Capillary collections Receipt of other specimens (urine, faeces, swabs) Collection of Mycology specimens (skin, nail, hair) Glucose Tolerance Tests

**Specimen Services**

- Specimen reception
- Specimen preparation and storage - manual
- Specimen preparation and storage - automated

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Data registration  
Specimen preparation for transport to alternative Pathlab Laboratories  
Specimen preparation for transport to a national referral laboratory  
Clinical Trials

**Transfusion Medicine**

**Materials/Products**

Red blood cells; Plasma; Fractionated products

**Type of Examination/Technical Field**

The following Transfusion related parameters by Immucore Echo and Immucore capture technology:

- ABO/Rh Group
- Antibody Screen
- Antibody Identification
- Full IAT Crossmatch
- Direct Antiglobulin Test (monospecific and polyspecific)
- Red cell antigen/Phenotyping
- Antibody Elution

The following Transfusion related parameters by Ortho Workstation and Gel Cards:

- Antibody Screen
- Antibody Identification
- Full IAT Crossmatch
- Direct Antiglobulin Test (monospecific and polyspecific)
- Red Cell Antigen Typing/Phenotyping
- Antibody Elution

The following Transfusion related parameters by manual tube technique:

- ABO/Rh Group
- Abbreviated/Immediate Spin Crossmatch
- Red Cell Antigen Typing
- Full IAT Crossmatch
- Direct Antiglobulin Test (monospecific and polyspecific)
- Alkali Denaturation (Apt and Downey)
- Antibody Elution

Transfusion Reaction Investigation

Storage and issue (including electronic) of blood components and products

Remote blood, product and storage equipment oversight:

Southern Cross Rotorua Hospital

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