

# CERTIFICATE OF ACCREDITATION

This is to certify that:

**PATHCARE GROUP OF COMPANIES  
KIMBERLEY LABORATORY**

Facility Accreditation Number: **M0039**

a South African National Accreditation System accredited laboratory  
provided that all SANAS conditions and requirements are complied with.

This certificate is valid as per the scope on the accompanying schedule of accreditation bearing the  
above accreditation number for

**MEDICAL TESTING LABORATORY  
CLINICAL PATHOLOGY**

The facility complies with the requirements of

**ISO 15189:2003**

While this certificate remains valid, the Accredited Facility named above is authorised to use the relevant  
SANAS logo to issue facility reports and/or certificates

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**Mr MA Peet  
Chief Executive Officer**

**Initial Accreditation: November 2000**

**Certificate Commences: March 2008**

**Certificate Expires: November 2008**

*"Recognised as the official national accreditation body by the Department of Trade and Industry of the  
Republic of South Africa"*

This certificate is only valid when accompanied by its schedule of accreditation.

## SCHEDULE OF ACCREDITATION

Testing Laboratory Number: M0039

<p><b><u>Permanent Address of Laboratory:</u></b>                  Pathcare Group of Companies                  Kimberley Laboratory                  3 Medkin Building                  Du Toitspan Rd                  Kimberley                  8301</p> <p><b><u>Postal Address:</u></b>                  P O Box 740                  Kimberley                  8300</p> <p>Tel : (053) 831-2131                  Fax : (053) 831-2398</p>	<p><b><u>Signatories:</u></b>                  Signatories as authorised by the                  Head of Laboratory</p> <p><b><u>Contact Person:</u></b>                  Ms Janette Wassung</p> <p>Issue No. : 07                  Date of issue : March 2008                  Expiry date : November 2008</p>
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Sample Type	Types of Tests	Equipment/ Method
<b><u>CHEMISTRY</u></b>		
Serum	Alanine Aminotransferase (ALT)	CX9
Serum	Albumin	CX9
Serum	Alkaline Phosphatase (ALP)	CX9
Serum	Amylase	CX9
Serum	Aspartate Aminotransferase (AST)	CX9
Serum	Beta Human Chorionic Gonadotrophin (βHCG)	DXI
	Quantitative	
Serum, Plasma	Bicarbonate (CO <sub>2</sub> )	CX9
Serum	Bilirubin, Direct	CX9
Serum	Bilirubin, Total	CX9
Serum	CA 125	DXI
Serum	CA 15.3	DXI
Serum	CA 19.9	DXI
Serum	Calcium (Total)	CX9
Serum	Carbamazepine	Axsym
Serum	Carcinoembryonic Antigen (CEA)	CX9
Serum, Plasma, CSF	Chloride	CX9
Serum	Cholesterol (HDL)	CX9
Serum	Cholesterol (Total)	CX9
Serum	C-Reactive Protein (CRP)	Immage
Serum	Creatine Kinase (CK)	CX9
Serum	Creatine Kinase MB Mass (CKMB Mass)	DXI
Serum	Creatine Kinase MB (CKMB)	CX9
Serum	Creatinine	CX9
Serum	Cryogloblin	Manual
Serum	Digoxin	Axsym
Serum	Ferritin	DXI
Serum	Follicle Stimulating Hormone (FSH)	DXI
Serum	Free T3	DXI
Serum	Free T4	DXI

**Field Manager**

Sample Type	Types of Tests	Equipment/ Method
<b>CHEMISTRY (CONTINUED)</b>		
Serum	Gamma Glutamyl Transferase (GGT)	CX9
Serum	Glucose	CX9
Serum	Glucose Tolerance Test (GTT)	CX9
Whole Blood	HbA1c	DXI
Serum	Hepatitis B Surface antigen	Axsym
Serum	HIV 1 and 2 antibodies	Axsym
Serum	Immunoglobulin A (IgA)	Immage
Serum	Immunoglobulin M (IgM)	Immage
Serum	Immunoglobulin G (IgG)	Immage
Serum	Insulin	DXI
Serum, Fluids	Lactate Dehydrogenase (LDH)	CX9
Serum	Lipoprotein (a)	Immage
Serum	Luteinising Hormone (LH)	DXI
Serum	Magnesium	CX9
Whole Blood	Myoglobin	Cardiac Reader
Serum	Oestradiol (E2)	DXI
Whole Blood	P02	Chiron 348
Whole Blood	PC02	Chiron 348
Whole Blood	pH	Chiron 348
Serum	Phenytoin	Axsym
Serum	Phosphate	CX9
Serum, Plasma	Potassium	CX9
Whole Blood	Pro Brain Natriuretic Peptide (proBNP)	Cardiac Reader
Serum	Prolactin	DXI
Serum	Prostate specific antigen (PSA)(Free)	DXI
Serum	Prostate specific antigen (PSA)(Total)	DXI
Serum	Protein (Total)	CX9
Serum	Sodium	CX9
Sweat	Sweat Test	Manual
Serum	Theophylline	Axsym
Serum	Thyroid stimulating hormone (TSH)	DXI
Serum	Toxoplasma antibodies	DXI
Serum	Triglycerides	CX9
Whole Blood	Troponin T (Quantitative)	Cardiac Reader
Stool	Trypsin	Manual
Serum	Urate	CX9
Serum, Plasma	Urea	CX9
Serum	Valproic Acid	Axsym

**Field Manager**

Sample Type	Types of Tests	Equipment/ Method
<b><u>HAEMATOLOGY</u></b>		
Plasma	Activated Partial Thromboplastin Time (APTT)	ACL Elite
Whole Blood	Blood grouping (ABO and Rh(D))	Manual
Serum	Cold agglutinins	Manual
Plasma	D-Dimer (Fibrin Degradation Product)	ACL Elite
Whole Blood	Direct coombs test	Manual
Whole Blood	Erythrocyte Sedimentation Rate (ESR)	Alifax
Plasma	Fibrinogen	ACL Elite
Whole Blood	Full blood count and differential count	HMX
Whole Blood	Indirect coombs test	Manual
Plasma	International Normalised Ratio (INR)	ACL Elite
Whole Blood	Malaria Antigens	Manual
Whole Blood	Malaria Smears	Manual
Plasma	Prothrombin Time (PT)	ACL Elite
Whole Blood	Reticulocyte count	Manual
Whole Blood	Sickle Cell wet preparation	Manual
<b><u>ANDROLOGY</u></b>		
Semen	Macroscopic Examination	Manual
Semen	Microscopic Examination	Manual
Semen	Post Vasectomy	Manual
<b><u>MICROBIOLOGY</u></b>		
Swabs, stools, sputum, urine, tissue, semen, fluids	Aerobic, anaerobic & microaerophilic Culture and Sensitivities	Manual/Vitek
Whole blood, Bone Marrow	Blood Culture	Bactec
Swabs, stools, sputum, urine, tissue, semen, fluids	Microscopic Wet Preparations	Manual
Swabs, stools, sputum, urine, tissue, semen, fluids	Preparations and Fluids	Manual
Swabs, stools, sputum, urine, tissue, semen, fluids	Staining Techniques For Microscopy	Manual
	Gram's Stain	Manual
	Ziehl Nielsen Stain	Manual
	Kinyoun's Stain For Cryptosporidium	Manual
	Lactophenol Cotton Blue Stain	Manual
	Indian Ink Stain For Cryptococcus	Manual

**Field Manager**

Sample Type	Types of Tests	Equipment/ Method
<b><u>MICROBIOLOGY</u></b> <b><u>(CONTINUED)</u></b>		
CSF	CSF cell counts and culture.	Manual
CSF, Blood Culture, urine	Wellcogen Bacterial Antigen Tests	Manual
Blood Culture	Coagulase Test	Manual
Blood Culture	Catalase Test	Manual
Blood Culture	Oxidase Test	Manual
Blood Culture	Identification of gram negative organisms using	Manual
Blood Culture	API 10S, API 20E, API 20NE	Manual
Blood Culture	Serological Identification of Bacteria, Including Shigella, Salmonella, and Enteropathogenic E. Coli	Manual
Blood Culture	Staphylococcus Agglutination	Manual
Blood Culture	Streptococcal Lancefield Grouping	Manual
Stool	Rotavirus & Adenovirus Immunoassay	Manual
Blood Culture	Streptococcus Pneumoniae Agglutination	Manual
Blood Culture	Identification of Haemophilus Species using satellitism	Manual
Blood Culture	And X, V and XV Factors	Manual
Blood Culture	Beta Lactamase Testing	Manual
Blood Culture	Basic Identification of Yeasts Using Chromogenic Plate Testing	Manual Chrom Plate and Vitek
Blood Culture	And Chrom Plates	Manual
Blood Culture	Optochin and Bacitracin Sensitivities	Manual
Blood Culture	Kirby Bauer Antibiotic Sensitivity Testing	Manual
Blood Culture	E Test MIC's for Penicillin and Ceftriaxone	Manual
Stool	Occult Blood	Manual
Urine and Stools	Reducing Substances	Manual
Stool	APT Test for Foetal Haemoglobin	Manual
Blood Culture	Biochemical Identification of Corynebacteria, Clostridium and Streptococcus species.	Manual
Urine	Urine Chemistry	Cliniteck
Sputum	RSV	Manual
Urine	Urine Pregnancy Screening	Manual

**Field Manager**

Laboratory No: M0039  
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 Expiry date: November 2008

Sample Type	Types of Tests	Equipment/ Method
<b><u>HISTOLOGY</u></b>		
Human Tissue	All General Histology	Manual
Bone	Decalcification	Manual
Human Tissue	Frozen Section	Cytostat Leica CM 1100
Human Tissue	Haematoxylin / Eosin	Manual
Human Tissue	PAS	Manual
Human Tissue	PAS- Diastase	Manual
Human Tissue	APAS	Manual
Human Tissue	APAS- Diastase	Manual
Human Tissue	Masson Trichrome	Manual
Human Tissue	Verhoef van Gieson	Manual
Human Tissue	Von Giesen	Manual
Human Tissue	Gordon & Sweet (Reticulin)	Manual
Human Tissue	Von Kossa	Manual
Human Tissue	Congo Red	Manual
Human Tissue	Masson Fontana	Manual
Human Tissue	Pearls Prussian Blue	Manual
Human Tissue	Gram	Manual
Human Tissue	Methylene Blue	Manual
Human Tissue	Fite Feraco – MOD ZN	Manual
Human Tissue	Ziehl Nielsen	Manual
Human Tissue	Alcian Blue	Manual
Human Tissue	Melanin Bleach	Manual
Human Tissue	Bests Carmine	Manual
Human Tissue	Southgates Mucicarmine Pap Stain	Manual
Human Tissue	Giemsa	Manual
<b><u>CYTOLOGY</u></b>		
Fluids and Sputum	All general cytology other than pap smears	Manual

**Field Manager**