

# **CERTIFICATE OF ACCREDITATION**

*In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-*

## **THISTLE LABORATORY SERVICES (PTY) LTD**

**Co. Reg. No.: 2014/046252/07**

Facility Accreditation Number: **PTS0001**

is a South African National Accreditation System accredited Proficiency Testing Scheme Provider provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying scope of accreditation Annexure "A", bearing the above accreditation number for

## **PROFICIENCY TESTING BY INTERLABORATORY COMPARISONS**

The facility is accredited in accordance with the recognised International Standard

**ISO/IEC 17043:2010**

The accreditation demonstrates technical competency for a defined scope and the operation of a laboratory quality management system

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

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**Mr R Josias**  
**Chief Executive Officer**

**Effective Date: 28 February 2020**  
**Certificate Expires: 27 February 2024**

## ANNEXURE A

## SCOPE OF ACCREDITATION

Accreditation Number: PTS0001

<b>Permanent Address of Laboratory:</b> Thistle Laboratory Services (Pty) Ltd 48 Monte Carlo Boulevard Kyalami Business Park Kyalami 1684  <b>Postal Address:</b> P O Box 131375 Bryanston 2074  Tel: 011 463-3260 Fax: 011 463-3036 E-mail: <a href="mailto:rachel.otto@lccgroup.com">rachel.otto@lccgroup.com</a>		<b>Persons involved in design and conduct of the schemes:</b> <b>Scheme Manager:</b> Ms R Otto  <b>Scheme Coordinators:</b> Mrs P Zulu (Clinical & Forensic) Ms R Otto (Clinical) Ms F Motsai (Clinical & Forensic ) Ms SN Zondi  <b>Nominated Representative:</b> Ms P Mogotsi  Issue No.: 20 Date of issue: 02 March 2020 Expiry date: 27 February 2024		
ITEM	TECHNICAL FIELD, DISCIPLINE OR SUB DISCIPLINE	MEASUREAND(S) OR CHARACTERISTICS TO BE IDENTIFIED, MEASURED OR TESTED	TYPE OF PT ITEM, MATERIAL OR ARTEFACT	
1	<b>PT SCHEME ID: CLINICAL (MEDICAL)</b>			
1.01	Clinical Chemistry	Acid Phosphatase (Prostatic) Alanine Transaminase Alkaline Phosphatase Aspartate Transaminase Bilirubin Direct Calcium Cholesterol Copper Creatinine Glucose HDL Cholestrol Lactate Dehydrogenase Neonatal Bilirubin Phosphate Inorganic Potassium PSA TIBC Uric Acid HBDH Bile Acid Cholinesterase Lactate	Acid Phosphatase (Total) Albumin Amylase Bicarbonate Bilirubin Total Chloride Creatine Kinase (Total) Fructosamine Glutamyl Transferase Iron Ionised Calcium Lipase Magnesium Lithium Osmolality Sodium Triglycerides Total Protein Urea D-3 Hydroxybutyrate Zinc Amylase Pancreatic	Lyophilised Human Serum
1.02	Urine Chemistry	Dopamine Metanephrine Normetanephrine Amylase Chloride Cortisol Glucose Microalbumin Oxalate Potassium Sodium Uric Acid	Epinephrine Norepinephrine 5 – HIAA Calcium Copper Creatinine Magnesium Osmolality Phosphate Inorganic Total Protein VMA Urea	Lyophilised Human Urine

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1.03	Therapeutic Drugs	Amikacin Carbamazepine Digoxin Gentamicin Methotrexate Phenobarbitone Primidone Theophylline Valproic Acid	Caffeine Cyclosporin Ethosuximide Lithium Paracetamol Phenytoin Salicylic Acid Tobramycin Vancomycin	Lyophilised Human Serum
1.04	Human Proteins	Albumin α1 – Acid Glycoprotein AFP ASOT Interpretation Beta-2-microglobulin Complement C4 C-Reactive Protein Haptoglobin Immunoglobulin G Immunoglobulin M Kappa light chain Free Lambda light chain - total RF - Numeric RBP Retinol Binding Protein CRP Qualitative	α1 – Antitrypsin α2 – Macroglobulin ASOT Numeric Antithrombin III Caeruloplasmin Complement C3 Ferritin Immunoglobulin A Immunoglobulin E Kappa light chain - total Lambda light chain Free (P) Prealbumin RF Interpretation RF- titre Transferrin ASOT Titre	Liquid Human Serum
1.05	Immunoassay	AFP Beta-2-Microglobulin CA 15-3 CA 19-9 CEA Digoxin Folate Gastrin hCG LH 17-OH-Progesterone Progesterone Free PSA T3 T4 Theophylline Total PSA Valproic Acid ACTH Androstenedione Phenobar bital PTH	Aldosterone CA 125 Carbamazepine Cortisol DHEA-S Ferritin FSH GH IgE Immunoglobuline Phenytoin Oestradiol Prolactin Free T3 Free T4 Testosterone TSH Vitamin B12 Insulin SHBG Thyroglobulin DHEA Unconjugated	Lyophilised Human Serum

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1.06	Lipid	Total Cholesterol LDL Cholesterol Apolipoprotein A <sub>1</sub> Lipoprotein (a)	HDL Cholesterol Triglycerides Apolipoprotein B	Lyophilised Human Serum	
1.07	Immunoassay Speciality I  Immunoassay Speciality II	Anti-TG C-peptide Calcitonin Procalcitonin 1-25-(OH) <sub>2</sub> -Vitamin D Calcitonin Procalcitonin Renin, direct concentration	Anti-TPO IGF-1 Gastrin Osteocalcin 25-OH-Vitamin D Gastrin Plasma Renin Activity	Lyophilised Human Serum	
1.08	HbA1c	Glycosylated Haemoglobin		Lyophilised Human Blood	
1.09	Haematology	HB RBC MCV MCHC	WBC HCT MCH PLT	MPV PCT RDW	Whole Blood
1.10	Differential Slide	Diagnosis Differential count	Morphology	Blood Smears	
1.11	Coagulation	PT Fibrinogen	APTT Factor II Factor V Factor VII Factor VIII Factor IX Factor X Factor XI Factor XII Plasminogen Antithrombin III Protein C Protein S TT: Thrombin Time	Lyophilised Human Plasma	
1.12	HIV Serology	Qualitative HIV Quantitative HIV		Human Serum	
1.13	Blood Gas	pH P O <sub>2</sub> Potassium Ionised Calcium Lithium	pCO <sub>2</sub> Total CO <sub>2</sub> Sodium Chloride Lactic Acid Glucose	Aqueous Solution	

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1.14	Microbiology	Organism ID Microbial Susceptibility Anti-biogram	Lyophilised Organisms
1.15	Pregnancy	bHCG Quantitative bHGC Qualitative	Lyophilised Human Serum
1.16	Cardiac Programme	CK – MB Activity CK Total Myoglobin Troponin T Quantitative CK – MB Mass Homocysteine Troponin I Tropin T Qualitative	Lyophilised Human Serum
1.17	Liquid Cardiac	Digoxin CK-MB Mass Homocysteine D-Dimer HS-CRP Myoglobin NT –Pro BNP Trop I (TROPONIN) Trop T (TROPONIN)	Liquid Human Serum
1.18	ESR	ESR	Whole Blood
1.19	CSF	Albumin Chloride Glucose Lactic acid Total Protein IgG Sodium	Lyophilised CSF
1.20	Ammonia & Ethanol	Ammonia Ethanol	Liquid Sample
1.21	Forensics	DNA	DNA Blood spots
1.22	BNP	BNP	Liquid Human Serum
1.23	Maternal Screen	AFP HCG Free Beta HCG Total Inhibin A PAPP – A Unconjugated Estriol	Lyophilised Human Serum
1.24	Neonatal Bilirubin	Total Bilirubin Direct Bilirubin	Liquid Bovine Serum

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ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

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