



Thistle QA

2009

**International EQA For
January 2009**

 **THISTLE QA**
We focus on quality

COMPANY PROFILE



OVERVIEW

Thistle QA is a South African company which offers an independent quality service to laboratories through External Quality Assessment (EQA) and Proficiency Testing (PT) programmes.

HISTORY

Thistle QA was started by Dr Jim McCulloch in 1989. Initially it supplied one EQA, in General Chemistry, to about forty laboratories in the Johannesburg region but this soon increased to cover almost all testing done in pathology labs. Now the database covers labs in over 60 countries worldwide, through a data share facility with Randox Laboratories in the UK. In addition to pathology labs, many industrial labs take part in PTs, for example forensic and food microbiology labs.

COVERAGE

It would be possible to describe Thistle QA merely in terms of figures. For example we have a database of over 6000 participants and most of our data is from overseas, making us a truly international service provider. With 7 international programmes and 16 local ones for pathology, as well as over 20 programmes in other laboratory areas, we have one of the biggest databases in the world. However, we are also truly African and we care about quality. Still based in Johannesburg, we make local expertise available to all our participants through our active advisory and training approach. EQA/PT is a useful way to identify lab analytical problems and we are always willing to support quality improvement in our participating labs in whatever way we can. This could be a simple phone call to discuss quality problems, or a visit to help identify the root cause of the problem. We like to make a difference.

SUPPORT

Participants receive teaching material monthly, to increase the knowledge base and also help gather those necessary CPD points. In addition, a QC Course is available to all Thistle QA customers, as well as regular seminars and workshops held wherever they are needed, and a multi-disciplinary Annual Quality Talk takes place at major centers throughout Southern Africa.

Various statistical services are also available, for example we will help with your new instrument evaluations, validations, linearity testing and so on.

All this is free to those taking part in Thistle QA programmes.

STANDARDS

Thistle QA was the first EQA/PT service provider in Africa to be accredited. We achieved the ISO guide 43 accreditation from SANAS in 2000, and followed this up in 2005 by adding accreditation to the European standard, ILAC: G13.

SUMMARY

With a truly local and yet international service, Thistle QA is there to help you improve the quality of your testing. With electronic results collection, a friendly and professional service, and electronic reports, we offer one of the best services possible.

Thistle QA - We focus on quality

NEW INTERNATIONAL EQAs FROM JANUARY 2009

Thistle QA is excited to announce that we are joining an International Collaboration of 13 EQA / PT service providers in January 2009. This change will give South African labs access to over 170 additional EQA programmes, and give us much better databases than we would have on our own. DigitalPT in Canada lead this collaboration. For more information visit the web site at www.thistle.co.za and log in under the DigitalPT option.

Please consult the separate DigitalPT catalogue for 2009 to view the complete listing of all EQAs available.

STARTING DATES FOR THISTLE EQA PROGRAMMES



January & July	February & August	March & September	April & October	May & November	June & December
Immunoassay	Differential Slide	Clinical Chemistry	Clinical Microbiology	Food Microbiology	
Lipid	HIV Serology	Haematology	Pregnancy		
Blood Gas	CSF	Therapeutic Drugs	HbA1C		
Urine Chemistry	Transfusion Medicine	Human Proteins	ESR (NOT compatible with Beckman Alifax)		
Coagulation	D-Dimers	Cardiac			
Urinalysis		CTS (Forensics)			
Liquid Cardiac					

Most of the above programmes are fully international and operate in over 60 countries through our collaboration with Randox (UK).

ANALYTE LIST FOR 2009

ANALYTE LIST INDEX

P6 - Blood Gas, Cardiac
 P7 - Liquid Cardiac, Clinical Chemistry
 P8 - Clinical Chemistry, Differential Slide
 P9 - Coagulation, Haematology
 P10 - Therapeutic Drugs, Food Micro, Forensic

P11 - Lipid, Urinalysis
 P12 - Immunoassay
 P13 - Human Proteins
 P14 - Clinical Microbiology, Urine Chemistry
 P15 - CSE, D-Dimer, ESR, HbA1C
 P16 - HIV Serology, Pregnancy, Transfusion Medicine

BLOOD GAS		PROTEIN SOLUTION		JANUARY & JULY	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
CALC	Ionised Calcium	mmol/l	Ionised Calcium	1	10
CHLOR	Chloride	mmol/l	Chloride	1	3.3
LAC	Lactic Acid	mmol/l	Lactic Acid	1	20
LITH	Lithium	mmol/l	Lithium	1	12
PCO2	pCO2	mmHg	pCO2	1	8
PH	pH	n/a	pH	3	5
PO2	pO2	mmHg	pO2	1	12
POT	Potassium	mmol/l	Potassium	1	8
SOD	Sodium	mmol/l	Sodium	1	3
TCO2	Total CO2	mmol/l	Total CO2	1	9
GLU	Glucose	mmol/l	Glucose	1	7.4

Blood Gas EQA Programme:

If the PO2 mean values are <100 mmHg, all values within the range +/- 15 mmHg of the mean will be considered to be acceptable.

If the Ionised Calcium mean values are <0.8 mmol/l, all values within the range +/- 0.1 mmol/l of the mean will be considered to be acceptable.

CARDIAC		LYOPHILISED HUMAN SERUM		MARCH & SEPTEMBER	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
CRCK	CK Total	U/l	CK Total	3	20
CRMBA	CK-MB Activity	U/l	CK-MB Activity	3	20
CRMBM	CK-MB Mass	ng/ml	CK-MB Mass	3	20
CRMHO	Homocysteine	µmol/l	Homocysteine	3	25
CRMV	Myoglobin	ng/ml	Myoglobin	3	28
CRTRI	Troponin I	ng/ml	Troponin I	3	23
CRTRT	Troponin T	ng/ml	Troponin T	3	23
CRTTI	Troponin T Qualitative	Interpretation	Troponin T Qualitative	3	n/a

Cardiac EQA Programme:

If CK-MB Activity mean values are <20 U/l, all values within the range +/- 4 U/l of the mean will be considered to be acceptable.

ANALYTE LIST FOR 2009

LIQUID CARDIAC				JANUARY & JULY	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
LCBNP	BNP	pmol/l	BNP	3	20
LCCKM	CKMB mass	ug/l	CKMB mass	3	20
LCDIG	Digoxin	nmol/l	Digoxin	3	18
LCHO	Homocysteine	umol/l	Homocysteine	3	25
LCHSC	HS-CRP (High Sensitivity CRP)	mg/l	HS-CRP (High Sensitivity CRP)	3	22
LCMY	Myoglobin	ug/l	Myoglobin	3	28
LCNTP	NT- ProBNP	pmol/l	NT - ProBNP	3	20
LCTRI	Troponin I	ug/l	Troponin I	3	23
LCTRT	Troponin T	ug/l	Troponin T	3	23

This is a new addition, a fully international EQA – all the details were not available at the time of printing, but please contact Thistle QA for more details.

CLINICAL CHEMISTRY		LYOPHILISED HUMAN SERUM		MARCH & SEPTEMBER	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
ALB	Albumin	g/l	Albumin	3	7
ALT	Alanine Transaminase	IU/l	Alanine Transaminase	3	20
AMY	Amylase	IU/l	Amylase	3	19
APH	Alkaline Phosphatase	IU/l	Alkaline Phosphatase	3	18
APP	Acid Phosphatase, Prostatic	IU/l	Acid Phosphatase, Prostatic	3	12
APT	Acid Phosphatase, Total	IU/L	Acid Phosphatase, Total	3	12
AST	Aspartate Transaminase	IU/l	Aspartate Transaminase	3	17
BIC	Bicarbonate	mmol/l	Bicarbonate	1	15
BIL	Bilirubin - Total	µmol/l	Bilirubin, Total	3	20
BILD	Bilirubin - Direct	µmol/l	Bilirubin, Direct	3	36
BILDN	Bilirubin - Neonatal	µmol/l	Bilirubin - Neonatal	1	20
CAL	Calcium	mmol/l	Calcium	2	4.4
CCCALI	Calcium - Ionised	mmol/l	Calcium - Ionised	1	4.4
CHL	Chloride	mmol/l	Chloride	2	3.3
CHO	Cholesterol	mmol/l	Cholesterol	2	13
CKT	Creatine Kinase - Total	IU/l	Creatine Kinase, Total	3	20
COP	Copper	µmol/l	Copper	1	13

ANALYTE LIST FOR 2009

CLINICAL CHEMISTRY		LYOPHILISED HUMAN SERUM		MARCH & SEPTEMBER	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
CRE	Creatinine	µmol/l	Creatinine	2	10
FER	Iron	µmol/l	Iron	1	20
FRUC	Fructosamine	µmol/l	Fructosamine	1	7
GGT	Glutamyl Transferase	IU/l	Glutamyl Transferase	3	21
GLU	Glucose	mmol/l	Glucose	2	7.4
HBD	HBDH	IU/l	HBDH	3	12
HDL	HDL-Cholesterol	mmol/l	HDL-Cholesterol	3	12
IBC	TIBC	µmol/l	TIBC	2	20
LDH	Lactate Dehydrogenase	IU/l	Lactate Dehydrogenase	3	15
LIS	Lipase	IU/l	Lipase	3	15
LIT	Lithium	mmol/l	Lithium	1	12
MAG	Magnesium	mmol/l	Magnesium	2	8
OSM	Osmolality	mOsm/Kg	Osmolality	3	3
PHO	Phosphate - Inorganic	mmol/l	Phosphate, Inorganic	2	13
POT	Potassium	mmol/l	Potassium	2	8
PRT	Protein, Total	g/l	Protein, Total	2	6
PSA	PSA	µg/l	PSA	3	15
SOD	Sodium	mmol/l	Sodium	2	3
TRI	Triglycerides	mmol/l	Triglycerides	2	20
UAC	Uric Acid	mmol/l	Uric Acid	2	15
URE	Urea	mmol/l	Urea	2	15
ZIN	Zinc	µmol/l	Zinc	1	14

Chemistry EQA Programme:

If *Bilirubin Total* and *Neonatal* mean values are <20 µmol/l, all values within the range +/- 4 µmol/l of the mean will be considered to be acceptable.

If *Bilirubin Direct* mean values are <20 µmol/l, all values within the range +/- 7 µmol/l of the mean will be considered to be acceptable.

If *Bicarbonate* mean values are <20 mmol/l, all values within the range +/- 3 mmol/l of the mean will be considered to be acceptable.

DIFFERENTIAL SLIDE		BLOOD SMEARS		FEBRUARY & AUGUST	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
	Differential count	n/a	Differential count	n/a	n/a
	Morphology	n/a	Morphology	n/a	n/a

ANALYTE LIST FOR 2009

COAGULATION				JANUARY & JULY	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
COA2P	Factor II	% Activity	Factor II	1	15
COA5P	Factor V	% Activity	Factor V	1	15
COA7P	Factor VII	% Activity	Factor VII	1	15
COA8P	Factor VIII	% Activity	Factor VIII	1	15
COA9P	Factor IX	% Activity	Factor IX	1	15
COF10P	Factor X	% Activity	Factor X	1	15
COF11P	Factor XI	% Activity	Factor XI	1	15
COF12P	Factor XII	% Activity	Factor XII	1	15
COFF	Fibrinogen	Mass	Fibrinogen	3	25
COFPP	Plasminogen	% Activity	Plasminogen	1	15
COIAP	Antithrombin III	% Activity	Antithrombin III	1	15
COICP	Protein C	% Activity	Protein C	1	15
COISP	Protein S	% Activity	Protein S	1	15
COTAS COTAR	APTT: Activated Partial Thromboplastin	Seconds RATIO	APTT: Activated Partial Thromboplastin	1	20
COTPS COTPR COTPI COTPP	PT: Prothrombin Time	Seconds RATIO INR % Activity	PT: Prothrombin Time	3	20
COTT	TT: Thrombin Time	Seconds	TT: Thrombin Time	1	15

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HAEMATOLOGY		EQUINE BLOOD		MARCH & SEPTEMBER	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
HB	Haemoglobin	g/dl	Haemoglobin	3	7
HCT	HCT	% or L/L	HCT	2	6
MCH	MCH	pg	MCH	2	6
MCHC	MCHC	g/dl	MCHC	2	6
MCV	MCV	fl	MCV	3	6
PLT	Platelets	10 ⁹ /l	Platelets	3	19
RBC	RBC	10 ¹² /l	RBC	3	6
WBC	WBC	10 ⁹ /l	WBC	3	15
WBCB	WBC Basophilic	10 ⁹ /l	WBC Basophilic	1	15

ANALYTE LIST FOR 2009

THERAPEUTIC DRUGS		LYOPHILISED HUMAN SERUM		MARCH & SEPTEMBER	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
AMIK	Amikacin	µmol/l	Amikacin	1	20
BARB	Phenobarbitone	µmol/l	Phenobarbitone	1	16
CAFF	Caffeine	µmol/l	Caffeine	1	20
CARB	Carbamazepine	µmol/l	Carbamazepine	1	16
CYC	Cyclosporin	nmol/l	Cyclosporin	1	14
DIG	Digoxin	nmol/l	Digoxin	1	18
ETHO	Ethosuxamide	µmol/l	Ethosuxamide	1	12
GENT	Gentamicin	µmol/l	Gentamicin	1	20
LITH	Lithium	mmol/l	Lithium	1	12
METH	Methotrexate	µmol/l	Methotrexate	1	20
PARA	Paracetamol	mmol/l	Paracetamol	1	12
PHEN	Phenytoin	µmol/l	Phenytoin	1	16
PRIE	Primidone	µmol/l	Primidone	1	20
SALI	Salicylic Acid	mmol/l	Salicylic Acid	1	12
THEO	Theophylline	µmol/l	Theophylline	1	20
TOBR	Tobramycin	µmol/l	Tobramycin	1	20
VALP	Valproic Acid	µmol/l	Valproic Acid	1	17
VANC	Vancomycin	µmol/l	Vancomycin	1	20

FOOD MICRO		LYOPHILISED ORGANISMS		MAY & NOVEMBER	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
	2 to 3 Vials: Indicate Present or Absent and count	n/a	2 to 3 Vials: Indicate Present or Absent and count	n/a	n/a
	Organisms you can expect in a 6 month cycle: * Coliform Count * Listeria * Campylobacter * E. coli * Staphylococcus * Lactic acid bacteria * Bacillus cereus * Shigella * Yeast and Moulds * Salmonella * Clostridium perfringens * Enterococcus * Enterobacteriaceae * Faecal Coliforms * Vibrio * Pseudomonas	n/a	n/a	n/a	n/a

ANALYTE LIST FOR 2009

FORENSIC		DRIED BLOOD SPOTS			
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
	DNA	n/a	Crime scene DNA matching	n/a	n/a

LIPID		LYOPHILISED HUMAN SERUM		JANUARY & JULY	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
LTCHO	Cholesterol Total	mmol/l	Cholesterol Total	1	13
LTHDL	HDL-Cholesterol	mmol/l	HDL-Cholesterol	3	12
LTLDL	LDL-Cholesterol	mmol/l	LDL-Cholesterol	3	20
LTTRI	Triglycerides	mmol/l	Triglycerides	1	20
TAPOA	Apolipoprotein A1	g/l	Apolipoprotein A1	1	12
TAPOB	Apolipoprotein B	g/l	Apolipoprotein B	1	12
TAPAA	Lipoprotein (a)	mg/dl	Lipoprotein (a)	1	21

URINALYSIS		JANUARY & JULY		
Analyte Code	Analyte Name	Analyte Unit	Return Name	
URALB	Albumin	mg/dl or mg/l	Albumin	
URBIL	Bilirubin	mg/dl or umol/l	Bilirubin	
URBLD	Blood	mg/dl or Ery/ul	Blood	
URCRE	Creatinine	mg/dl or mmol/l	Creatinine	
URGAL	Galactose	mg/dl or umol/l	Galactose	
URGLU	Glucose	mg/dl or mmol/l	Glucose	
URHCG	hCG	mU/ml	hCG	
URKET	Ketones	mg/dl or mmol/l	Ketones	
URLEU	Leukocytes	mg/dl or Leu/ul	Leukocytes	
URNIT	Nitrite	mg/dl or mmol/l	Nitrite	
URPH	pH	pH value	pH	
URPRT	Protein	mg/dl or g/l	Protein	
URSG	Specific Gravity	RATIO	Specific Gravity	
URUR	Urobilinogen	mg/dl or EU/dl	Urobilinogen	

IF arbitrary units are used:

Negative/Trace/+/++/+++/++++

Negative/Trace/Small/Moderate/Large

Negative/Trace/Positive

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ANALYTE LIST FOR 2009

IMMUNOASSAY		LYOPHILISED HUMAN SERUM		JANUARY & JULY	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
..COR	Cortisol	nmol/l	Cortisol	3	25
.PSA	Total PSA	ng/ml	Total PSA	3	25
AFP	AFP	U/ml	AFP	3	20
CA125	CA 125	U/ml	CA 125	3	20
CA153	CA 15-3	U/ml	CA 15-3	3	20
CA199	CA 19-9	U/ml	CA 19-9	3	20
CEA	CEA	ng/ml	CEA	3	20
FERR	Ferritin	ng/ml	Ferritin	3	15
FOL	Folate	nmol/l	Folate	3	25
FT3	Free T3	pmol/L	Free T3	3	20
FT4	Free T4	pmol/L	Free T4	3	16
HCG	hCG	mU/ml	hCG	3	20
IALD	Aldosterone	pmol/l	Aldosterone	3	25
IBMIC	Beta-2-Microglobulin	µg/ml	Beta-2-Microglobulin	3	12
ICARB	Carbamazepine	µmol/l	Carbamazepine	3	16
IDHE	DHEA-S	µmol/l	DHEA-S	3	20
IDIG	Digoxin	nmol/l	Digoxin	3	18
IGAS	Gastrin	ng/l	Gastrin	3	25
IIGE	Immunoglobulin E	U/ml	IgE	3	12
IPHEN	Phenytoin	umol/l	Phenytoin	3	16
IPS	Free PSA	ng/ml	Free PSA	3	25
ITHEO	Theophylline	µmol/l	Theophylline	3	20
IVALP	Valproic Acid	µmol/l	Valproic Acid	3	17
T3	T3	nmol/l	T3	3	16
T4	T4	nmol/l	T4	3	15
TSH	TSH	µU/ml	TSH	3	20
VB12	Vitamin B12	pmol/L	Vitamin B12	3	20
Z17OH	17-OH-Progesterone	nmol/l	17-OH-Progesterone	3	20
ZFSH	FSH	mU/ml	FSH	3	20
ZGH	GH	µU/ml	GH	3	25
ZLH	LH	mU/ml	LH	3	20
ZOEST	Oestradiol	pmol/l	Oestradiol	3	20
ZPRL	Prolactin	µU/l	Prolactin	3	20
ZPROG	Progesterone	nmol/l	Progesterone	3	25
ZTEST	Testosterone	nmol/l	Testosterone	3	22

ANALYTE LIST FOR 2009

HUMAN PROTEINS		LIQUID HUMAN SERUM		MARCH & SEPTEMBER	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
C3	Complement C3	g/l	Complement C3	3	12
C4	Complement C4	g/l	Complement C4	3	20
CAER	Caeruloplasmin	g/l	Caeruloplasmin	1	12
CRP	C Reactive Protein	mg/l	C Reactive Protein	3	22
CRPI	CRP Qualitative	Interpretation	CRP Interpretation	n/a	n/a
FERR	Ferritin	ug/l	Ferritin	1	15
GLOA	Immunoglobulin A	g/l	Immunoglobulin A	1	19
GLOB	Immunoglobulin G	g/l	Immunoglobulin G	1	12
GLOM	Immunoglobulin M	g/l	Immunoglobulin M	1	22
HAPT	Haptoglobin	g/l	Haptoglobin	1	12
PAFP	AFP	U/ml	AFP	1	20
PALB	Albumin	g/L	Albumin	1	7
PANTI	Antithrombin III	mg/l	Antithrombin III	1	14
PASO	ASO Numeric	IU/ml	Anti Streptolysin O	1	25
PASOI	ASO Qualitative	Interpretation	Anti Streptolysin O	n/a	n/a
PBMIC	B-2-Microglobulin	mg/l	B-2-Microglobulin	1	15
PGLO2	alpha-2-Macroglobulin	g/l	Alpha-2-Macroglobulin	1	12
PGLYI	alpha-1-Acid Glycoprotein	g/l	Alpha-1-Acid Glycoprotein	1	12
PIGE	Immunoglobulin E (IgE)	IU/ml	Immunoglobulin E (IgE)	1	30
PKLC	Kappa Light Chain, Total	g/l	Kappa Light Chain	1	50
PLLC	Lambda Light Chain, Total	g/l	Lambda Light Chain	1	50
PRBP	Retinol Binding Protein	mg/l	Retinol Binding Protein	1	25
PREA	Prealbumin	g/l	Prealbumin	1	12
PRF	RF Numeric	U/ml	Rheumatoid Factor	1	24
PRFQ	RF Qualitative	Interpretation	Rheumatoid Factor	n/a	n/a
TRAN	Transferrin	g/l	Transferrin	1	11
TRYP	Alpha-1-Antitrypsin	g/l	Alpha-1-Antitrypsin	1	16
PKLF	Kappa Light Chain, Free (P)	mg/l	Kappa Light Chain, Free (P)	1	50
PLLF	Lambda Light Chain, Free (P)	mg/l	Lambda Light Chain, Free (P)	1	50

ANALYTE LIST FOR 2009

CLINICAL MICROBIOLOGY		KWIK-STIK LYOPHILIZED PELLETT		APRIL & OCTOBER	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acc CV
	<i>Organism ID</i>		Organism ID		
	<i>Microbial Susceptibility Antibiogram</i>		Microbial Susceptibility Antibiogram		

URINE CHEMISTRY		LYOPHILISED HUMAN URINE		JANUARY & JULY	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acc CV
-ALB	<i>Microalbumin</i>	mg/l	Microalbumin	1	15
-AMY	<i>Amylase</i>	U/l	Amylase	3	19
-CAL	<i>Calcium</i>	mmol/l	Calcium	1	12
-CHL	<i>Chloride</i>	mmol/l	Chloride	1	10
-COP	<i>Copper</i>	µmol/l	Copper	1	25
-COR	<i>Cortisol</i>	nmol/l	Cortisol	1	25
-CRE	<i>Creatinine</i>	mmol/l	Creatinine	1	15
-DOP	<i>Dopamine</i>	nmol/l	Dopamine	1	25
-EPI	<i>Epinephrine</i>	nmol/l	Epinephrine	1	33
-GLU	<i>Glucose</i>	mmol/l	Glucose	1	10
-HIAA	<i>5-HIAA</i>	µmol/l	5-HIAA	1	20
-MAG	<i>Magnesium</i>	mmol/l	Magnesium	1	25
-MET	<i>Metanephrine</i>	µmol/l	Metanephrine	1	33
-NOR	<i>Norepinephrine</i>	nmol/l	Norepinephrine	1	33
-NORM	<i>Normetanephrine</i>	µmol/l	Normetanephrine	1	33
-OSM	<i>Osmolality</i>	mOsm/kg	Osmolality	1	5
-OXA	<i>Oxalate</i>	mmol/l	Oxalate	1	25
-PHO	<i>Phosphate, Inorganic</i>	mmol/l	Phosphate, Inorganic	1	13
-POT	<i>Potassium</i>	mmol/l	Potassium	1	10
-PRTA	<i>Protein</i>	g/l	Protein (Albumin Cal)	1	10
-SOD	<i>Sodium</i>	mmol/l	Sodium	1	10
-UAC	<i>Uric Acid</i>	mmol/l	Uric Acid	1	15
-URE	<i>Urea</i>	mmol/l	Urea	1	16
-VMA	<i>VMA</i>	µmol/l	VMA	1	25

ANALYTE LIST FOR 2009

CSF		LYOPHILISED CEREBRO-SPINAL FLUID		FEBRUARY & AUGUST	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
CSALB	Albumin	mg/l	Albumin	1	20
CSCHL	Chloride	mmol/l	Chloride	1	20
CSGLU	Glucose	mmol/l	Glucose	1	20
CSIGG	IgG	mg/l	IgG	1	20
CSLAC	Lactic Acid	mmol/l	Lactic Acid	1	20
CSPRT	Total Protein	mg/l	Total Protein	1	20
CSSOD	Sodium	mmol/l	Sodium	1	20

D-DIMER		LYOPHILISED ORGANISMS		FEBRUARY & AUGUST	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
DDIM	D-dimers	ng/ml or µg/ml	D-dimers	1	20
FDP	FDPs		FDPs	1	n/a

ESR		HUMAN BLOOD		APRIL & OCTOBER	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
ESR	ESR	mm/hr	ESR	1	20

ESR EQA Programme:

If ESR mean values are <20 mm/hr, all values within the range +/- 4 mm/hr of the mean will be considered to be acceptable.

HbA1C		LYOPHILISED HUMAN BLOOD		APRIL & OCTOBER	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
ESR	Glycosylated Haemoglobin	%	Glycosylated Haemoglobin	n/a	20

ANALYTE LIST FOR 2009

HIV SEROLOGY				FEBRUARY & AUGUST	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
	HIV		HIV		

PREGNANCY		LYOPHILISED HUMAN SERUM		APRIL & OCTOBER	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
hCG	hCG Quantitative	mIU/ml	hCG Quantitative	3	20
hCGQ	hCG Qualitative	Interpretation	hCG Qualitative	n/a	n/a

Pregnancy EQA Programme:

If *Pregnancy* mean values are <20 mIU/ml, all values within the range +/- 4 mIU/ml of the mean will be considered to be acceptable.

TRANSFUSION MEDICINE		HUMAN SERUM & BLOOD		FEBRUARY & AUGUST	
Analyte Code	Analyte Name	Analyte Unit	Return Name	Stat Level	Acceptable CV
	Blood Grouping:	n/a	Blood Grouping:	n/a	n/a
	Blood: Rhesus	n/a	Blood: Rhesus	n/a	n/a
	Blood: Phenotype	n/a	Blood: Phenotype	n/a	n/a
	Forward and Reversed grouping	n/a	Forward and Reversed grouping	n/a	n/a
	Serum: Antibody detection	n/a	Serum: Antibody detection	n/a	n/a

TO CONTACT THISTLE QA:

For further details contact us at our office in Johannesburg - South Africa at 0 (27) 11 463 3260 or email us at mail@thistle.co.za
Our web site details – www.thistle.co.za

Names of Staff members that will give you immediate assistance:

Marlize Albertse – Executive Manager | **Debbie Moosa** – Quality Manager | **Phumi Zulu** – Office Manager |
Naomi du Plessis – Office Supervisor