


Schedule of Accreditation

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United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 2736 Accredited to ISO 15189:2007	<h3 style="margin: 0;">Laboratorios Dr Moreira</h3> <p style="margin: 0;">Issue No:005 Issue date: 18 December 2009</p>	
	<p>Grana. S.A Ave. Padre Mier 1380 Pte. Col. Maria Luisa Monterrey Nuevo Leon Mexico C.P 64040</p>	<p>Contact: Dr Luis Rene Garza Tel: +52 (81) 8150 2100 Fax: +52 (81) 8150 2128 E-Mail: lrgarza@labmoreira.com Website: www.labmoreira.com</p>

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Grana. S.A Ave. Padre Mier 1380 Pte. Col. Maria Luisa Monterrey Nuevo Leon Mexico C.P 64040</p> <p>Local contact Dr Luis Rene Garza</p>	Biochemistry Microbiology Histopathology Cytology Endocrinology Immunology Serology Haematology Parasitology Lipids Urinalysis	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Address: Padre Mier (Central laboratory) Ave. Padre Mier No. 1380 Pte. Col. Maria Luisa Monterrey Nuevo Leon, Mexico C.P64040</p> <p>Local Contact: Dr Luis Rene Garza</p>	Sample collection and site testing including sampling by arterial puncture. Note: this is the only site authorised to perform blood sampling by arterial puncture.	B
<p>Torres Ave. Lazaro Cardenas No 2660 Ote, Edificio B, Local 1, Col. Mirador Residencial Monterrey Nuevo Leon, Mexico C.P64910</p> <p style="text-align: center;">Dr Luis Rene Garza</p>	Sample collection and site testing with the exception of sampling by arterial puncture	C



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Address: Valle Rio Guadalquivir No. 19 and Calzada San Pedro Colonia del Valle San Pedro Garza García Nueva León Mexico	Local Contact: Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Guadalupe Ave. Pdte. Benito Juarez No 502, Guadalupe Nuevo Leon Mexico C.P6710	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Contry Ave. Constelaciones No. 108 Col. Contry Monterrey Nuevo Leon Mexico C.P64860	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Leones Paseo de los Leones No.1239-A Col. Cumbres 1er Sec Monterrey Nuevo Leon Mexico C.P64610	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Revolucion Ave. Revolucion No. 781, Col. Villas del Rio Monterrey Nuevo Leon Mexico C.P64850	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Anahuac Ave. Universidad No.101-A Col. Anahuac, San Nicolas de los Garza Nuevo Leon Mexico C.P66450	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Las Americas Paseo de las Americas No. 2431 Col. Contry la Silla 7o. Sector Guadalupe Nuevo Leon Mexico C.P67173	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C



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Address: Centro de Especialidades Medicas Jose Benitez No 2704 Col. Obispado Monterrey Nuevo Leon Mexico C.P66460	Local contact: Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Linda Vista Ave. Pdte. Miguel Aleman No 201 Ote Col. Linda Vista Guadalupe Nuevo Leon Mexico C.P67130	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Vasconcelos Ave. Vasconcelos No. 303-1 Pte, Col. Del Valle Garza Garcia Nuevo Leon Mexico C.P66220	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
GNP Hidalgo 2040 Col. Obispado Monterrey Nuevo León C.P. 64040	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Cumbres (Cima) Paseo de los Leones No. 2286 Col. Cumbres 2do. Sector Monterrey Nuevo Leon Mexico C.P64610	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Tecnologico Ave. Eugenio Garza Sada No. 2124 Col. Roma Monterrey Nuevo Leon Mexico C.P64700	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C



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Address: Barragan Ave. Manuel L. Barragan No. 6530 Col. Valle de Anahuac, San Nicolas de los Garza Nuevo Leon Mexico C.P66450	Local contact: Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Tauro Ave. Tauro No. 306 Col. La Purisima Guadalupe Nuevo Leon Mexico C.P67129	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Alpes Ave. Mariano Abasolo No. 3565 Planta Baja Local 2 Fracc. Alpes Saltillo Coahuila Mexico	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Saltillo Centro Emilio Carranza Emilio Carranza No 308 Ote. Zona Centron Saltillo Coahuila Mexico	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Venustiano Carranza Blvd Venustiano Carranza No 4120 Local 43 Col Villa Olimpica, Saltillo Coahuila Mexico	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Universidad Real no. 690 Col. Jardines del Valle Saltillo Coahuila Mexico	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Satelite Garza Sarda 6320 Cd. Satelite Monterrey Nuevo Leon Mexico C.P. 64960	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C



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Address: SANTA CATARINA Privada Estrada no 121 esq.con Movimiento Obrero Col. Los Trevino, Santa Catarina N.L. Mexico	Local contact: Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
FELIX GALVAN Ave.Felix Galvan no. 101Local 5 y 6 entre Laureles y Las Flores Residencial Los Morales, San Nicolas de los Garza, N.L. Mexico	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
PABLO LIVAS Ave. Pablo Livas 7200 local 4 y 5 entre Azhares y Julieta Col Santa Maria, Guadalupe N.L. C.P.67190 Mexico	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
SANTIAGO Carretera Nacional km 248, Santiago, N.L. Mexico	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
CUMBRES ELITE Alejandro de Rodas no. 5800 cruz con Pedro Infante Col.Residencial Cumbres Las Palmas Monterey N.L. CP. 64619 Mexico	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
ESCOBEDO Ave. Las Torres 113 esq. Ave. Los Pinos Col. Nuestra Señora de Fátima (Local 13y 14 Plaza las Torres Escobedo N.L. CP 66057 Mexico	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
VALLE ORIENTE Real San Agustín 406Col. Residencial San Agustín San Pedro Garza García CP 66260 Mexico	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C
Permanent Domiciliary accommodation	Dr Luis Rene Garza	Sample collection and site testing with the exception of sampling by arterial puncture	C



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS Urine	<u>Biochemistry</u> <u>(Semi-Quantitative analyses, unless otherwise specified)</u>	Documented In-house methods using: Determinations by: Reagent strips (R.S), Refractometry, Microscopy, Kova Chamber (KCh), Neubauer chamber (NCh) Agglutination (Agg), Macroscopic inspection.	A
	Urinalysis: Character (clarity) / Appearance colour (Qualitative) Specific gravity	PDEO Macroscopic examination R.S: Multistix 10SG, Clinitek 500 Bayer and Refractometry.	A
	Proteins, Glucose, Ketone, Biliburin Total, Blood, pH, Nitrites, Urobilinogen, Leucocyte, Erithrocyte, Urine sediment	R.S: Multistix 10SG, Clinitek 500 Bayer	
	Confirmatory Biliburin (Qualitative)	PDEO-1 (R.S; Ictotest, Bayer)	A
	Erythrocyte morphology	EROR (KCh and Microscopy)	A



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<p>HUMAN BODY FLUIDS</p> <p>Semen</p> <p>Endocervical mucus and vaginal secretions (post-coital)</p>	<p><u>Biochemistry</u> <u>(Semi-Quantitative analyses, unless otherwise specified)</u></p> <p>Seminal fluid examination</p> <p>Physical, chemical and microscopic examination:</p> <p>Colour, Volume, Viscosity, pH, Haemoglobin</p> <p>Mobility, Count, Morphology, Presence of erythrocytes and leukocytes</p> <p>Sims Huhner</p> <p>Physical, chemical and microscopic examination</p> <p>Colour, Volume, Viscosity, pH, Haemoglobin</p> <p>Spermatozoa Mobility, Count, Morphology, Presence of erythrocytes and leukocytes</p>	<p>Documented In-house methods:</p> <p>ESPDR (pH by R.S: Multistix 10S.G, NCh and Microscopy)</p> <p>HRZVR (pH by R.S: Multistix 10S.G, NCh and Microscopy)</p>	<p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p>



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HUMAN BODY FLUIDS	Biochemistry (Quantitative analyses, unless otherwise specified)	Documented In-house methods using:	A
		Abbott- Aeroset: Colorimetric determinations (C), Kinetic Spectrophotometry (K.S) Enzymatic (E) /End Point (E.E) Ion Selective Electrode (I.S.E) Turbidimetry (T)	A
Serum/Urine	Amylase	AMLS –CALCO (K.S)	A
Serum only	Iron	HRRS (C)	
	Acid Phosphatase	FOAC (K.S)	
	Osmolarity	OSMS – Calculation from GLUS/ ENAK (Sodium value)/UREA	
Serum/Plasma	Direct Bilirubin, Bilirubin Total, Indirect Bilirubin Cholesterol Creatine Kinase Lactate Dehydrogenase Alkaline Phosphatase Protein Total Albumin Globuline and Albumin/Globuline rate Gamma Glutamyl Transpeptidase Aspartate aminotransferase (AST) Alanine aminotransferase (ALT) Triglycerides	BILD (C) , BILT (C) BILI – Calculation from BILD/BILT COLT (E.E) CPKS (K.S) DLDH (K.S) FOAL (K.S) PRTO (C) ALBS (C) GLOB– Calculation from ALBS/PRTO GGTS (K.S)	A
Serum/Plasma/Urine	Creatinine Creatine Clearance Uric acid Urea Nitrogen Urea Chloride, Potassium, Sodium	CRSU –CALCO (C) DCRA Calculated from CRSU- CALCO AURS –CALCO (C) UREA – CALCO (E) UREICO Calculation from UREA ENAK–CALCO(I.S.E) receive	A



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HUMAN BODY FLUIDS	Biochemistry (Quantitative analyses, unless otherwise specified)	Documented In-house methods using:	A
Serum/Plasma/Urine (cont'd)	Calcium Magnesium	CALS –CALCO (C) MAGS-CALCO (C)	A
	Phosphorus	FFOS – CALCO (C)	A
Urine/Cerebrospinal Fluid (CSF)	Protein Total	ALBO (T)	A
Serum/Plasma/Urine/CSF	Glucose	GLUS –CALCO (E.E) Abbott- Spec 310: Colorimetric determinations (C),	A A
Serum/EDTA Whole Blood Plasma		Vitros DT60 with colorimetric, potentiometric using multi-layer VITROS Chemistry Slides	
Serum/ Plasma	Ammonia	AMON	
	Lithium	LITI	
	Creatinine Kinase -MB	CPKM	
	Lipase	LIPS	
		Abbott- I-Stat:	A
Whole Blood	Calcium Ionised and Blood gases (pH, pCO ₂ , p O ₂)	CALI using Ion Selective Electrode	A
Serum/Urine	Ketone (Qualitative)	CCTS using Bayer, Acetest and Colorimetric determination	A



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HUMAN BODY FLUIDS and SPECIMENS continued	<u>Biochemistry. (Quantitative analysis, unless otherwise specified)</u>	Documented In-house methods using:	A
Sweat	Sodium Chloride (Sweat test)	Wescor: ELSU using Iontophoresis/conductivity	A
Whole blood	Haemoglobin Glycated	Bio-rad Variant II: HGLI by High Performance Liquid Chromatography	A
Plasma	Homocysteine	Bayer Centauro Chemiluminescence (CL) HOMO	A
Urine	<u>Endocrinology/Toxicology (Quantitative analyses unless otherwise specified)</u>	Documented In-house methods using: Abbott- AxSYM: Fluorescence Polarisation Immunoassay (FPIA). Microparticle Enzyme Immunoassay (MEIA)	A
Whole Blood	Drugs of abuse screen (Semi-quantitative) Amphetamines/Methamphetamine Benzodiazepine Cocaine/Cocaine metabolites Cannabinoids (THC) Opiates Cyclosporine A	ANFOR (FPIA) BENOR (FPIA) COCOR (FPIA) MAROR (FPIA) OPIOR (FPIA) CISA (FPIA)	A
Serum/Plasma	Antiperoxidase Thyroid antibody	APER (MEIA)	
Serum	Insulin	INSU (MEIA)	



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HUMAN BODY FLUIDS and SPECIMENS continued	<u>Endocrinology/Toxicology</u> <u>(Quantitative analyses unless otherwise specified)</u>	Documented In-house methods using:	A
Serum/Plasma	Phenobarbital	Abbott- TDx/TDx FLx Fluorescence Polarisation Immunoassay (FPIA). FBAR (FPIA)	A A
Serum	Prostatic Specific Antigen – PSA Prostatic Specific Antigen - Free PSA	Abbott Architect i2000 Chemiluminescence (CL) APES CL) APESL (CL)	A A
Serum/Plasma	Thyroxine T4 Tri-iodothyronine T3 Thyroid stimulating hormone (TSH) Thyroxine Free (FT4) Microalbumin Thyroxine Binding Capacity T-uptake	PTIRR (CL) TRIY (CL) PTIRS (CL) TT4L (CL) MICR T4UP	A
Serum only	Estradiol Beta-Human Chorionic Gonadotropin (BHCG) Follicle-Stimulating Hormone (FSH) Luteinising Hormone (LH) Progesterone Prolactin Testosterone Total	Bayer Centauro Chemiluminescence (CL) ESTR (CL) GCSSR-GCSA (CL) HFES (CL)	A
Serum/Plasma (Serum only)	Carbamazepine Phenytoin Digoxin Valproic Acid	TEGRS (CL) DHIAR DGXA ACVAR	A A A A



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HUMAN BODY FLUIDS and SPECIMENS continued	<u>Lipid determinations</u>	Documented in-house methods using:	
	<u>(Quantitative analyses, unless otherwise specified)</u>		
Serum	Apolipoprotein A and B	by APOA,B-1 using Abbott Architect c8000 and turbidimetry	A
Serum/EDTA or Heparine plasma	High Sensitivity CRP	PCRS by Nephelometry	A
Serum/Plasma	High Density Lipoprotein (HDL)	PLIPC- 1 using Abbott Architect c8000 and spectrophotometry	A
Serum	Low Density Lipoprotein (LDL)	PLIPD using Abbott Architect c8000 and spectrophotometry	A
Serum	Very Low Density Lipoprotein (VLDL)	PLIPF - Calculation from Friedewald equation from COLT and TRIG values. Calculation	A
	<u>Immunology (Quantitative, semi Quantitative and Qualitative analyses as specified)</u>	Documented in-house methods using	
Serum/Urine/Cerebrospinal Fluid	Protein (Semi quantitative)	ELPR by Cellulose Acetate Zone Electrophoresis in Genio by Interlab	A
Serum	Quantitative Immunoglobulin : IgE	IgE Microparticle Enzyme Immunoassay Abbott – IMX	A
Serum	Quantitative Transferrin	HRCSR by Nephelometry using Behring BN ProSpec	A
	Iron Binding capacity total	HRCS (Calculation from HRCSR)	
	Immunoglobulin : IgA, IgG, IgM	INMT by Nephelometry using Behring BN ProSpec	
	Complement C3 and C4	CC34 by Nephelometry using Behring BN ProSpec	



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HUMAN BODY FLUIDS and SPECIMENS continued	<u>Immunology (Quantitative, semi Quantitative and Qualitative analyses as specified) continued</u>	Documented in-house methods using	
Serum continued	Quantitative Antistreptolysin (Semi quantitative)	ASTR by Nephelometry using Behring BN ProSpec	A
	C Reactive Protein (Semi quantitative)	PCRE by Nephelometry using Behring BN ProSpec	
	Rheumatic Factor (Semi quantitative)	FRAT	
Serum/Heparin/ Plasma	Quantitative	Abbott- AxSYM using Microparticle Enzyme Immunoassay (MEIA)	
		Documented In-house methods using: Abbott- AxSYM using Microparticle Enzyme Immunoassay (MEIA)	
Serum	Ag.CA 125	ANCA	A
Serum/Plasma	Ag. CA 15-3	DAEM	A
Serum/Plasma/Amniotic Fluid	Alpha-Fetoprotein (AFP)	A1FP	A
Serum	Ferritin	FERR	
EDTA Plasma	Quantitative	Abbott- AxSYM using Microparticle Enzyme Immunoassay (MEIA)	
Serum/Plasma	Carcinoembryonic Antigen (CEA)	ACEA	A
	Rubella IgG Antibodies	ARUB	A
	Rubella IgM Antibodies (Qualitative)	ARUM	A



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HUMAN BODY FLUIDS and SPECIMENS continued	<u>Immunology continued (Quantitative, Semi quantitative and qualitative analyses, as specified)</u>	Documented In-house methods using:	
Serum/Plasma	Toxoplasma IgG Antibodies	ATOG	A
	Toxoplasma IgM Antibodies (Qualitative)	ATOM	A
	Cytomegalovirus IgG Antibodies (Semi-quantitative)	ACIG	A
	Cytomegalovirus IgM Antibodies (Qualitative)	ACIM	A
	Semi – quantitative Antibody to Hepatitis B Surface Antigen (Anti HB's)	AABS (MEIA – AUSAB)	A
	Qualitative Hepatitis A Virus IgG Antibodies (HAV IgG)	HAIG (MEIA – HAVAB 2.0)	A
	Hepatitis A Virus IgM Antibodies (HAV IgM)	HAIM (MEIA – HAVAB-M)	A
	Hepatitis B Virus e Antibodies	AABE (MEIA – Hbe 2.0)	A
	Hepatitis B Virus Core Antigen	AACG (MEIA – CORE)	A
	Hepatitis B Virus Core IgM Antibodies (IgM Anti HBc)	AACM (MEIA – CORE-M)	A
	Hepatitis B Surface Antigen (HbsAg)	AAUS (MEIA V2)	A
	Hepatitis B Virus e Antigen (HBeAg)	ABEE (MEIA - HBe)	A
	Hepatitis C Virus Antibodies (HCV)	AAVGR (MEIA - HCV)	A
	HIV-1 and 2 Antibodies	HTLVE-1 Abbott MEIA HIV Ag/Ab Combo	A
Serum/Plasma	HIV –1 and 2 Antibodies (Qualitative)	HTLV using immunochromatograph by Abbott, Determine HIV I/II	A
Endocervical and endo urethral specimen	Chlamydia Trachomatis Antigen (Qualitative)	ACHL using Quick Vue and Lateral flow immunoassay	A



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HUMAN BODY FLUIDS and SPECIMENS continued	<u>Immunology continued (Quantitative, Semi quantitative and qualitative analyses, as specified)</u>	Documented In-house methods using:	
Serum/Plasma	Entamoeba histolytica IgG Antibodies (Semi quantitative)	AMIB using Cellognost Amoebiasis Reagents and Indirect Hemagglutination (IHA)	A
	Treponema pallidum Total Antibodies (Qualitative)	FTABS using Serodia TP-PA and Passive Agglutination (TP-A):	A
Serum/Plasma/Whole blood	Helicobacter pylori IgG Antibodies (Qualitative)	AAHE using Immuno Card H Piloni Meridian / Enzyme Immunoassay (EIA)	A
Stool	Helicobacter pylori Antigen (Qualitative)	ANHP using Immunocard STAT! HpSA and lateral flow immunoassay	A
Stool	Rotavirus antigen detection (Qualitative)	ROTA using Immuno Card STAT Rotavirus / Enzyme Immunoassay (EIA)	A
Serum only	Semi quantitative SS-A IgG Autoantibodies SS-B IgG Autoantibodies Sc1-70 IgG Autoantibodies Sm (Smith) IgG Autoantibodies Ds-DNA IgG Autoantibodies RNP IgG Autoantibodies	AARO (ELISA) AALA (ELISA) AASC (ELISA) ANUS (ELISA)	A A A A
	Thyroglobulin Antibodies	AATI (ELISA)	A
Urine	N-Telopeptides (Quantitative)	NTX (ELISA)	A
Serum/Plasma	Cardiolipin IgG and IgM autoantibodies (Semi quantitative)	AACR (ELISA)	A



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HUMAN BODY FLUIDS and SPECIMENS continued	<u>Immunology continued (Quantitative, Semi quantitative and qualitative analyses, as specified)</u>	Documented In-house methods using:	
Serum only	Antinuclear Antibodies (Semi quantitative)	AANU by Indirect enzyme -Microscopy	A
	Anti-DNP (LE Cells) (Qualitative)	CELE by Latex Particle Agglutination, (V-Trend Kit LE)	A
	<u>Serology (Semi quantitative and qualitative analyses, as specified)</u>	Determinations by: Agglutination (Agg), Tube Agglutination Test (T Agg T) Macroscopic inspection (Macroscopic) Latex Particle Agglutination (L.P.A)	A
Serum only	Rapid Plasma Reagin (R.P.R) (Semi-quantitative)	VDRL (Agg – TECO Diagnostics)	A
	Cold agglutinins (Semi quantitative)	AGFR (Macroscopic –T Agg T)	A
	Detection of Brucella melitensis, B abortus, B. bovis and B suis. - Bengale Rose test (Semi quantitative)	ROSA (Agg; using Rose Bengal reagent)	A
EDTA Whole Blood	Blood Grouping (A+ , B+, O+, A-, B-, O-)	GYRH by Tube Agglutination Test (Transclone Bio rad)	A
	Antiglobulin Test Direct – Direct Coombs Test (Qualitative)	COOD by Tube Agglutination Test (Biorad reagent)	A



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HUMAN BODY FLUIDS and SPECIMENS continued	<u>Serology continued</u> <u>(Semi quantitative and qualitative analyses, as specified)</u>	Documented In-house methods using:	
Serum only	Antiglobulin Test Indirect – Indirect Coombs Test (Semi quantitative)	COOI by Tube Agglutination Test (Biorad reagent)	A
	Detection of Salmonella, Brucella and Rickettsias Febrile Serological Test (Semi quantitative)	RFEB by agglutination; (Biorad reagent)	A
Serum / EDTA Plasma	Detection of Infectious Mononucleosis Heterophile Antibodies (Semi quantitative)	AHETQ by latex particle agglutination (Meridian, Monospot Latex)	A
Urine	Chorionic Gonadotropin Hormone (hGC) Quantitative (Semi quantitative)	GONC by Hemagglutination (Lafon Prenatest Beta Monoclona)	A
	Chorionic Gonadotropin Hormone (hGC) (Qualitative)	GOCO by Enzyme Immunoassay – EIA; (Quidel Corp. Quick Vue)	A



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HUMAN BODY FLUIDS and SPECIMENS continued	<u>Haematology</u> <u>(Quantitative, Semi quantitative and qualitative analyses, as specified)</u>	Documented In-house methods using:	
EDTA Whole Blood	Quantitative Complete Blood Count <ul style="list-style-type: none"> - White Blood Cells - Red Blood Cells - Haemoglobin - MCV - Platelets Reticulocyte	Abbott - Cell-dyn 3700: Flow cytometry (F.C) Electric Impedance (E.I) Spectrophotometry (S) BHCO (F.C, E.I and S)	A A
Citrated Plasma	Peripheral Blood Smear (qualitative) Erythrocytes, Leukocytes, Platelets Detection of Plasmodium spp	RETI (F.C and E.I) FSAP by Microscopy HTZOR by Microscopy	A A A
	Prothrombin Time (P.T) (Semi quantitative) Partial Thromboplastin Time (PTT) (Semi quantitative)	CA-500; TPRO by Photopical Clot Detection (P.C.D) TTRP by Photopical Clot Detection (P.C.D)	A A
	Fibrinogen (Semi quantitative)	FIBC by Macroscopic clot detection (Dade Behring reagent)	A
	Thrombin Time (semi quantitative)	TTRO by Photopical Clot Detection	
	Lupus Anticoagulant (semi quantitative)	FACL by Photopical Clot Detection	



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HUMAN BODY FLUIDS and SPECIMENS continued	<u>Haematology</u> <u>(Quantitative, Semi quantitative and qualitative analyses, as specified)</u>	Documented In-house methods using: Sysmex, CA-500; (cont'd)	
Body fluids	Eosinophils (qualitative)	EOMR by Microscopy	A
Citrated Whole Blood	Erythrocyte Sedimentation rate (semi quantitative)	VSGL by sedimentation	A
HUMAN BODY FLUIDS and SPECIMENS continued	<u>Microbiology</u> <u>(Qualitative examinations)</u>	Documented In-house methods:	
Diverse Corporal Specimens	Detection of gram positive and negative bacteria	BGRAR by gram stain and microscopy	A
Stool	Detection of Cyclospore sp	CYCL using modified Ziehl Neelson Stain and microscopy	A
	Detection of Acid Alcohol Fast Bacilli (AAFB)	BSPA using Ziehl Neelson Stain and microscopy	A
Diverse Corporal Specimens	Detection of fungal elements	HKOH using potassium hydroxide and microscopy	A
Cerebrospinal Fluid	Detection of Cryptococcus neoformans capsules	LCRTR using India ink and microscopy	A
Diverse corporal specimens	General isolation and characterisation of micro-organisms	CEST -Sputum	A
		CFAR – Throat exudate	A
		CNAS – Nose exudate	A
		COID – Otic exudate	A
		COJD – Conjunctive exudate	A
		COPC – Stool	A
		CSFC – Catheter	A
		CSIN – Body fluids	A
		CSYA – Pus	A
		CSEM – Semen	A
		CURE – Urethra	A
		CVAG –	A
		Endocervical/Vaginal/Vulvar	
		LCRC – Cerebrospinal Fluid	A
		URCO - Urine	A



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HUMAN BODY FLUIDS and SPECIMENS continued	<u>Microbiology</u> <u>(Qualitative examinations)</u>	Documented In-house methods:	
Aerobic and Microaerobic Organisms Isolated from Disease situations	Identification and Antimicrobial susceptibilities of Gram negative and positive organisms (other than fastidious organisms)	CULV using Dade Behring, Walk away system	A
Microaerobic Organisms Isolated from Disease situations	Identification and Antimicrobial susceptibilities of fastidious organisms (Neisseria, Haemophilus and Gardnerella spp)	HNID using Dade Behring Walk away system	A
	Isolation and characterisation/ identification of fungi and yeasts of pathogenic significance	HOCU using Potato dextrose and Saboraud Agars with Identification by lactophenol cotton blue staining and microscopy	A
HUMAN BODY FLUIDS and SPECIMENS continued	<u>Microbiology</u> <u>(Qualitative examinations)</u>	Documented In-house methods:	
Whole Blood	Blood Culture	HCULR using Bactec 9050 Becton Dickinson	A
Stool	Detection of Clostridium difficile Enterotoxin A	CLOST by Enzyme Immunoassay (EIA) and Premier C Difficile Toxin A reagent.	A
	Detection of Giardia and Cryptosporidium	CRHF by Direct Fluorescent Antibody (DFA) using Medifluor reagent	A
Throat Swab	Detection of Streptococcus Group A (Rapid Test)	EBHA by Enzyme Linked Immunoassay (ELISA) (Becton Dickinson Test Pack)	A



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HUMAN BODY FLUIDS and SPECIMENS continued Stool	<u>Parasitology</u> <u>(Qualitative examinations, except where specified).</u>	Documented In-house methods:	
	Physical, Chemical and Microscopic Stool Analysis		A
	Consistency Appearance / Colour Presence of frank blood and pus Presence of Mucus Presence of Yeasts	COPL by macroscopic and microscopic assessment	A
	pH	COPL using Reagent strip: Multistix SG	A
	Physical, Chemical and Microscopic Stool Analysis		A
	Detection of Faecal Fat	COPL using acid/alcohol preparation and 'oily red' stain with microscopy	A
	Detection of Reducing substances	AZFC using Reagent strip: Clinitest, and Ames Bayer - reagent	A
	Detection and semi quantification of Occult blood	GUYC using Reagent strip: Bayer, and Hematest – reagent	A
	Presence of trophozoites, blood cells and yeasts	AMPC by Direct wet film and Microscopy	A
	Presence of mucus, fresh blood, yeasts, leukocytes, erythrocytes and parasites	CMOG by macroscopic examination, lugols iodine staining and microscopy	A
Presence and identification of Ova and Parasites	COP using Microscopy	A	
Ascaris Lumbricoides Identification	PARAS		



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HUMAN BODY FLUIDS and SPECIMENS continued	<u>Parasitology</u> <u>(Qualitative examinations, except where specified).</u>	Documented In-house methods:	
Stool or Parasite to be identified	Parasite identification	PARAS using Microscopy	A
Cellophane tape from perianal region	Presence of Enterobius vermicularis ova	NIHP using Microscopy	A
HUMAN TISSUE and SPECIMENS	Anatomical Pathology	Documented In-house methods:	A
Biopsy tissues	Biopsy	PR-PAT-003	A
		Supporting sample preparation and reporting methods.	
	Colouration with haematoxylin and eosin	IN-PAT-001	All 'A'
	Colouration of Ziehl Neelsen for acid resistant bacteria alcohol	IN-PAT-003	
	PAS colouration	IN-PAT-005	
	PAS colouration using method of digestion with diastase	IN_PAT-006	
	Colouration of PAS with blue alciano to pH of 2.5 or 1.0	IN-PAT-007	
	Hydration of the tissue in one slide, previous to accomplishment of colouration	IN-PAT-008	
	Inclusion, microtoming , extension and tissue mounting	IN-PAT-009	
	Macroscopic specimen dictation and inclusion of representative sections for its study	IN-PAT-010	
	Dictated microscopic descriptions and diagnosis	IN-PAT-011	
	Capture, edition and impression of images	IN-PAT-013	



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HUMAN TISSUE and SPECIMENS continued	Anatomical Pathology	Documented In-house methods:	
Cervicovaginal specimen	Cervical cytology Detection of Cytological Abnormalities in Cervical Smears	PR-PAT-004,	A
	Colouration of Papanicolaou Microscopic examination, interpretation and diagnosis of the cytologies	Supporting sample preparation and reporting methods. IN-PAT-002 IN-PAT-014	A
Diverse corporal fluids, imprints and fine needles aspiration biopsies	Non-gynaecological cytology Detection of Cytological Abnormalities in ascitic fluids and FNAB	PR-PAT-004,	A
	Colouration of Papanicolaou Microscopic examination, interpretation and diagnosis of the cytologies	Supporting sample preparation and reporting methods. IN-PAT-002 IN-PAT-014	A
HUMAN BODY FLUIDS and CORPOREAL SPECIMENS	Sampling and on site testing	Documented In-house method	
	Sampling		
	Collection of blood specimens by venipuncture in paediatrics and adults	IN-MTR-002 ; IN-MTR-001	B,C
	Collection of blood specimens by capillary puncture in paediatrics	IN-MTR-003 ; IN-MTR-001	B,C
	Collection of blood specimens by capillary puncture in adults	IN-MTR-009 ; IN-MTR-001	B,C
	** Collection of blood specimens by arterial puncture	IN-MTR-004 ; IN-MTR-001	B
	Collection of blood specimens which require certificate for legal use	IN-MTR-005	B,C



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HUMAN BODY FLUIDS and CORPOREAL SPECIMENS	Sampling and on site testing	Documented In-house method	
	Sampling		
	Collection of blood specimens for bleeding time test and clotting time test	IN-MTR-012	B,C
	Collection of blood specimens for kariotype tests	IN-MTR-017 ; IN-MTR-001	B,C
	Collection of blood specimens using the butterfly system	IN-MTR-019 ; IN-MTR-001	B,C
	Collection of sweat specimen by iontophoresis	IN-MTR-021	B,C
	Collection of sputum specimens	IN -MTR-031	
	Collection and handling of urine specimens	IN-MTR-010	B,C
	Collection of nasal, throat and conjunctival exudates specimens	IN-MTR-029	
	Collection of specimens from different corporal areas - Urine, Stool, Exudates, Secretions, Hair, Nails	IN-MTR-011	B,C
Collection of specimens from different corporal areas - Exudates, Secretions, Hair, Nails for direct smears and fungal culture	IN-MTR-032		
Collection of cervical-vaginal smears	IN-MTR-024	B,C	
Collection of cervical – vaginal mucus for Sims Huhner	IN-MTR-025	B,C	



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HUMAN BODY FLUIDS and CORPOREAL SPECIMENS continued	Sampling and on site testing	Documented In-house method	
	Sampling		
	Collection of endocervical mucus specimens for Chlamydia examination	IN-MTR-0030	
	Collection of semen samples – instructions to patients	IN-MTR-028	
	Collection of oral mucosa smears	IN-MTR-026	B,C
	Collection of stool specimens for Test NIH (Graham)	IN-MTR-006	B,C
	Collection of stool specimens for Amoebas Test	IN-MTR-007	B,C
	Site Testing		
	Intradermal skin tests : Candida, Histoplasmina, Coccidioidina, Tuberculin and Varidasa	IN-MTR-013	B,C
Blood -glucose determination (including sampling).	IN-MTR-020 (Abbott - Precision Q.I.D)	B,C	
Curves of tolerance: Dextrose, Lactose, D-xylose	IN-MTR-016	B,C	
Functional Hormonal tests (stimulation of patient prior to blood collection).	IN-MTR-018	B,C	
END			