


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>Accredited to ISO 15189:2012</p>	East Suffolk & North Essex NHS Foundation Trust (ESNEFT)	
	Issue No: 008 Issue date: 21 November 2024	
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Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	<u>General Biochemistry</u>	In house documented procedures based on equipment manuals and standard methods as specified:
Blood (unless otherwise stated)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of:	SOP BIO-IPS-LP-18 using Roche Cobas 8000 analyser (ISE, e801 and c702)
Serum, Li Heparin or EDTA plasma	Albumin	Roche c702 BIO-IPS-ADS-40 (Blood) Using bromcresol green
Urine– No Preservative.	Albumin/microalbumin	BIO-IPS-ADS-28 using Polyclonal anti-human albumin antibodies (sheep)
Blood Serum, Li Heparin or EDTA plasma	Alcohol (Ethanol)	BIO-IPS-ADS-96 using alcohol dehydrogenase
Serum or Li Heparin	Alkaline Phosphatase	BIO-IPS-ADS-92 using p-nitrophenyl phosphate
Serum, Li Heparin or EDTA plasma	Alpha 1 Antitrypsin	BIO-IPS-ADS-4 using - Anti-human α 1-antitrypsin antibody (rabbit):
Serum, Li Heparin or EDTA plasma	ALT	BIO-IPS-ADS-37 using L-alanine and 2-oxoglutarate
EDTA plasma	Ammonia	BIO-IPS-ADS-98 using - + α -ketoglutarate + NADH



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	<u>General Biochemistry</u> (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified:
Blood (unless otherwise stated) (cont'd)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	SOP BIO-IPS-LP-18 using Roche Cobas 8000 analyser (ISE, e801 and c702) Roche c702
Blood- Serum or Li Heparin	Amylase	BIO-IPS-ADS-36 (Blood) Using 4,6-ethylidene-(G7) p-nitrophenyl-(G1)- α ,D-maltoheptaoside (ethylidene-G7PNP)
Blood- Serum or Li Heparin	Angiotensin Converting enzyme	BIO-IPS-ADS-26 using synthetic substrate (FAPGG)
Serum, Li Heparin or EDTA plasma	Gentamycin	BIO-IPS-ADS-11 using KIMS
Serum, or EDTA plasma	Vancomycin	BIO-IPS-ADS-117 using - Vancomycin labelled with the enzyme glucose-6-phosphate dehydrogenase (G6PDH)
Serum, Li Heparin or EDTA plasma	AST	BIO-IPS-ADS-43 using - L-aspartate and 2-oxoglutarate
Serum or Li Heparin	Bicarbonate	BIO-IPS-ADS-78 using - phosphoenolpyruvate (PEP)
Serum or Li Heparin	Bile acids	BIO-IPS-ADS-47 using – Thio - Nicotinamide Adenine Dinucleotide
Serum or Li Heparin	Bilirubin (Conjugated)	BIO-IPS-ADS-5 using - diazotized sulfanilic acid
Serum or Li Heparin	Bilirubin (Total)	BIO-IPS-ADS-8 using diazonium ion
Serum or Li Heparin	Caeruloplasmin	BIO-IPS-ADS-8 using - Anti-ceruloplasmin T antiserum (rabbit)



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HUMAN BODY FLUIDS (cont'd)	<u>General Biochemistry</u> (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified:
Blood (unless otherwise stated) (cont'd)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	SOP BIO-IPS-LP-18 using Roche Cobas 8000 analyser (ISE, e801 and c702)
Blood- Serum or Li Heparin Urine- HCl preservative.	Calcium	Roche c702
Serum, Li Heparin or EDTA plasma	Carbamazepine	BIO-IPS-ADS-89 (Blood) BIO-IPS-ADS-27 (Urine) Using - 5-nitro-5'-methyl-BAPTA (NM-BAPTA)
Serum, Li Heparin or EDTA plasma	Cholesterol	BIO-IPS-ADS-70 using - Anti-carbamazepine antibody (mouse monoclonal)
Serum, Li Heparin or EDTA plasma	Cholesterol	BIO-IPS-ADS-38 using - phenol and 4-aminophenazone Non-calculated test
Serum, Li Heparin or EDTA plasma	CK (Creatine Kinase)	BIO-IPS-ADS-35 using ADP
Serum, Li Heparin or EDTA plasma	Complement C3	BIO-IPS-ADS-6 using Anti-human C3 antibody (goat):
Serum, Li Heparin or EDTA plasma	Complement C4	BIO-IPS-ADS-9 using Anti-human C4 antibody (goat)
Serum, Li Heparin or EDTA plasma	C-Reactive Protein	BIO-IPS-ADS-83 using - Latex particles coated with anti-CRP (mouse)
Serum, Li Heparin or EDTA plasma, Urine	Creatinine	BIO-IPS-ADS-94 (Blood) BIO-IPS-ADS-141 (Urine) Using 4-aminophenazone and HTIB ^a
CSF Fluoride EDTA or serum (<2 hours old)	Glucose	BIO-IPS-ADS-45 using Glucose-6-phosphate dehydrogenase oxidizes
CSF Fluoride EDTA	Protein	BIO-IPS-ADS-46 using copper in alkaline solution



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HUMAN BODY FLUIDS (cont'd)	<u>General Biochemistry (cont'd)</u>	In house documented procedures based on equipment manuals and standard methods as specified:
Blood (unless otherwise stated)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	SOP BIO-IPS-LP-18 using Roche Cobas 8000 analyser (ISE, e801 and c702) Roche c702
Serum, Li Heparin or EDTA plasma	Gamma Glutamyl Transferase	BIO-IPS-ADS-99 using - γ -glutamyl-3-carboxy-4-nitroanilide + glycylglycine
Blood-Fluoride EDTA	Glucose	BIO-IPS-ADS-12 (Blood) BIO-IPS-ADS-24 (Pleura/ascitic fluid & dialysis fluid) Using Glucose-6-phosphate dehydrogenase oxidizes
Serum, Li Heparin or EDTA plasma	HDL	BIO-IPS-ADS-120 using PEG-cholesterol esterase
Serum, Li Heparin or EDTA plasma	IgA	BIO-IPS-ADS-7 using Anti-human IgA antibody (goat)
Serum, Li Heparin or EDTA plasma	IgG	BIO-IPS-ADS-122 using Anti-human IgG antibody (goat)
Serum, Li Heparin or EDTA plasma	IgM	BIO-IPS-ADS-123 using Anti-human IgM antibody (goat)
Serum, Li Heparin	Iron	BIO-IPS-ADS-124 using - - Transferrin-Fe-complex
Fluoride EDTA	Lactate	BIO-IPS-ADS-15 using enzyme lactate oxidase (LOD) & Peroxidase (POD)
Serum or Li Heparin	LD (Lactate Dehydrogenase)	BIO-IPS-ADS-2 (Blood) BIO-IPS-ADS-65 (Pleura/Ascitic fluid & Dialysis fluid) Using pyruvate
Serum	Lithium	BIO-IPS-ADS-44 using Colorimetric test



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Blood (unless otherwise stated) (cont'd)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	SOP BIO-IPS-LP-18 using Roche Cobas 8000 analyser (ISE, e801 and c702)
Blood- Serum or Li Heparin Urine- Hydrochloric acid Preservative	Magnesium	Roche c702 BIO-IPS-ADS-125 (Blood) BIO-IPS-ADS-148 (Urine) Using aminomethane & Xylidyl blue
Serum, Li Heparin or EDTA plasma	Paracetamol	BIO-IPS-ADS-118 using aryl acylamidase & o-cresol + ammoniacal copper sulphate
Serum, Li Heparin	Phenytoin	BIO-IPS-ADS-74 using KIMS
Blood- Serum, Li Heparin or EDTA plasma Urine- Random urine or 24 hour urine collection (collected into HCl preservative)	Phosphate	BIO-IPS-ADS-126 (Blood) BIO-IPS-ADS-147 (Urine) Using ammonium molybdate
Urine- No preservative	24hr Protein	BIO-IPS-ADS-27 using Benzethonium chloride
Serum, Li Heparin or EDTA plasma	Rheumatoid Factor	BIO-IPS-ADS-10 using Immunoturbidimetric assay
Serum or Li Heparin	Salicylate	BIO-IPS-ADS-81 using NADH & salicylate hydroxylase
Serum, Li Heparin or EDTA plasma	Theophylline	BIO-IPS-ADS-33 using KIMS
Blood- Serum, Li Heparin or EDTA plasma	Total Protein	BIO-IPS-ADS-105 (Blood) using copper in alkaline solution
Serum, Li Heparin	Transferrin	BIO-IPS-ADS-107 using Anti-human transferrin antibodies (rabbit)



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Blood (unless otherwise stated) (cont'd)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	SOP BIO-IPS-LP-18 using Roche Cobas 8000 analyser (ISE, e801 and c702)
Serum, Li Heparin or EDTA plasma	Triglyceride	Roche c702
Blood- Serum or Li Heparin Urine, No Preservative	Urate	BIO-IPS-ADS-16 using - 4-aminophenazone + 4-chlorophenol 4-(p-benzoquinone-monoimino)-phenazone
Blood- Serum, Li Heparin or EDTA plasma Urine- No Preservative	Urea	BIO-IPS-ADS-30 (Urine) ADO229 (Blood) Using Uricase & 4-aminophenazone
Serum, Li Heparin or EDTA plasma	AFP	BIO-IPS-ADS-13(Blood) ADO275 (Urine) using - urease and glutamate dehydrogenase
Serum, Li Heparin or EDTA plasma	Anti-Thyroid peroxidase antibodies	Roche Cobas e801
Serum, Li Heparin or EDTA plasma	B12	BIO-IPS-ADS-112 Sandwich immunoassay (Monoclonal anti-AFP antibodies (mouse))
Serum, Li Heparin or EDTA plasma	BNP	BIO-IPS-ADS-135 using Competitive immunoassay (sheep antibody)
Serum, Li Heparin or EDTA plasma	CA125	BIO-IPS-ADS-132 Competitive immunoassay
Serum, Li Heparin or EDTA plasma		BIO-IPS-ADS-88 Sandwich immunoassay (monoclonal mouse and monoclonal sheep antibodies)
Serum, Li Heparin or EDTA plasma		BIO-IPS-ADS-136 Sandwich immunoassay (mouse antibody)



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Blood (unless otherwise stated) (cont'd)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	SOP BIO-IPS-LP-18 using Roche Cobas 8000 analyser (ISE, e801 and c702)
Serum, Li Heparin or EDTA plasma	CA153	Roche Cobas e801 BIO-IPS-ADS-137 Sandwich immunoassay (mouse antibody)
Serum, Li Heparin or EDTA plasma	CA19-9	BIO-IPS-ADS-84 Sandwich immunoassay (mouse antibody)
Serum, Li Heparin or EDTA plasma	CEA	BIO-IPS-ADS-72 Sandwich immunoassay (mouse antibody)
Serum, Li Heparin or EDTA plasma	Cortisol	BIO-IPS-ADS-69 Competitive immunoassay (polyclonal anti-cortisol antibody (ovine))
Serum, Li Heparin or EDTA plasma	DHEAS	BIO-APS-ADS-138 Competitive immunoassay. Monoclonal rabbit antibody
Serum, Li Heparin or EDTA plasma	Digoxin	BIO-IPS-ADS-75 Competitive immunoassay (monoclonal mouse antibody).
Serum, Li Heparin or EDTA plasma	Ferritin	BIO-IPS-ADS-134 Sandwich Immunoassay. Monoclonal mouse antibody
Serum or Li Heparin	Folate	BIO-IPS-ADS-133 Competitive immunoassay
Serum, Li Heparin or EDTA plasma	FSH	BIO-IPS-ADS-66 Sandwich Immunoassay. Mouse antibody
Serum, Li Heparin or EDTA plasma	hCG	BIO-IPS-ADS-67 Sandwich immunoassay (monoclonal anti-hCG antibody, mouse)



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Blood (unless otherwise stated) (cont'd)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	SOP BIO-IPS-LP-18 using Roche Cobas 8000 analyser (ISE, e801 and c702)
Serum, Heparin or EDTA Plasma	IGF1	Roche Cobas e801
Serum, Li Heparin or EDTA plasma	PEG Precipitation pre-treatment for interfering antibodies to monoclonal proteins	BIO-IPS-ADS-77 Sandwich immunoassay, Monoclonal mouse antibody
Serum, Li Heparin or EDTA plasma	Macroprolactin	BIO-IPS-LP-19 25% polyethylene glycol (PEG) solution precipitation
Serum, Li Heparin or EDTA plasma	LH	BIO-IPS-ADS-131 Sandwich Immunoassay. Monoclonal Mouse antibody.
Serum, Li Heparin or EDTA plasma	Oestradiol	BIO-IPS-ADS-71 Competitive immunoassay. Polyclonal Rabbit antibody.
Blood and serum	PLGF	BIO-IPS-ADS-61 Sandwich immunoassay Monoclonal mouse antibodies
Serum, Li Heparin or EDTA plasma	Procalcitonin	BIO-IPS-ADS-91 Sandwich Immunoassay. Monoclonal anti PCT Antibodies (Mouse)
Serum, Li Heparin or EDTA plasma	Procollagen type 1 amino-terminal propeptide (P1NP)	BIO-IPS-ADS-121 Sandwich immunoassay (Monoclonal Mouse antibody)
Serum, Li Heparin or EDTA plasma	Progesterone	BIO-IPS-ADS-82 Competitive immunoassay. Monoclonal Mouse antibody.



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Blood (unless otherwise stated) (cont'd)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	SOP BIO-IPS-LP-18 using Roche Cobas 8000 analyser (ISE, e801 and c702)
Serum, Li Heparin or EDTA plasma	Prolactin	Roche Cobas e801
Serum, Li Heparin or EDTA plasma	PSA (Total)	BIO-IPS-ADS-76 Sandwich immunoassay. Monoclonal Mouse antibody
EDTA plasma	PTH	BIO-IPS-ADS-139 Sandwich immunoassay. Monoclonal mouse antibody.
Blood or serum	SFLT-1	BIO-IPS-ADS-39 Sandwich immunoassay. Monoclonal mouse antibody.
Serum, Li-Heparin plasma	Vitamin D	BIO-IPS-ADS-62 Sandwich immunoassay Monoclonal mouse antibodies
Serum, Li Heparin	SHBG	BIO-IPS-ADS-1 Competitive immunoassay
Serum, Li Heparin or EDTA plasma	T3 (Free)	BIO-IPS-ADS-32 Sandwich immunoassay. Monoclonal mouse antibody.
Serum, Li Heparin or EDTA plasma	T4 (Free)	BIO-IPS-ADS-115 Competitive Immunoassay. Monoclonal Sheep antibody.
Serum, Li Heparin or EDTA plasma	Testosterone	BIO-IPS-ADS-68 Competitive immunoassay. Monoclonal rabbit antibody.
		BIO-IPS-ADS-73 Competitive immunoassay. Monoclonal sheep antibody.



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Blood (unless otherwise stated)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	SOP BIO-IPS-LP-18 using Roche Cobas 8000 analyser (ISE, e801 and c702)
Serum	Troponin T	Roche Cobas e801 BIO-IPS-ADS-90 Sandwich immunoassay (mouse antibody)
Serum, Li Heparin or EDTA plasma	TSH	BIO-IPS-ADS-85 Sandwich immunoassay. Monoclonal mouse antibody.
Blood- Serum or Li Heparin	Chloride	BIO-IPS-ADS-93 (Blood) ADO247 (Urine) Ion-Selective Electrode (ISE)
Urine- No Preservative	Potassium	BIO-IPS-ADS-86 (Blood) BIO-IPS-ADS-145 (Urine) Ion-Selective Electrode (ISE)
Blood, Serum or Li Heparin	Sodium	BIO-IPS-ADS-97 (Blood) ADO273 (Urine) Ion-Selective Electrode (ISE)
Urine No Preservative	Ciclosporin	BIO-IPS-CP-2 using Roche Cobas e411 analyser
EDTA whole blood	Thyroid Receptor Antibody (TRAB)	BIO-IPS-ADS-34 using Competitive immunoassay. Monoclonal mouse antibody
Serum		BIO-IPS-ADS-3 using Competitive immunoassay. Monoclonal mouse antibody



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Blood (unless otherwise stated)</p> <p>Serum or Li Heparinised Plasma.</p> <p>Serum or Li Heparinised Plasma.</p>	<p><u>General Biochemistry</u> (cont'd)</p> <p>Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)</p> <p>Apolipoprotein B</p> <p>Lipoprotein(a)</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified:</p> <p>SOP BIO-IPS-LP-18 using Roche Cobas 8000 analyser (ISE, e801 and c702)</p> <p>Roche Cobas e801</p> <p>BIO-IPS-ADS-152 Binding Site Optilite Protein Analyser using the determination of soluble antigen concentration by turbidimetric methods involves the reaction with specific antiserum to form insoluble complexes.</p> <p>BIO-IPS-ADS-153 Binding Site Optilite Protein Analyser using the determination of soluble antigen concentration by turbidimetric methods involves the reaction with specific antiserum to form insoluble complexes.</p>



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HUMAN BODY FLUIDS (cont'd)	<u>General Biochemistry</u> (cont'd) Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd) Blood gas analysis:	In house documented procedures based on equipment manuals and standard methods as specified: Radiometer ABL 825 Flex BIO-IPS-LP-8
Blood- Li Heparin whole blood Pleural fluid- Li Heparin	pH	BIO-IPS-ADS-49 (Blood) BIO-IPS-ADS-140 (Pleural Fluid) Using pH electrode
Whole blood- Li Heparin	p.CO2 TCO2 (Bicarbonate) p.O2 Ionized Calcium Sodium Potassium Chloride Lactate Carboxyhaemoglobin MetHb	BIO-IPS-ADS-49
Faeces	Calprotectin	Diasorin Liaison XL LP0060
Faeces	Elastase	BIO-IPS-ADS-029 using chemiluminescent Immunoassay technology
Blood (Unless otherwise specified) Serum	Protein electrophoresis assays:	SP 60 Helena SAS Protein electrophoresis Gel, CZE, and CZE Immunodisplacement Using SOP LP089, BIO-IPS-LP-9, BIO-IPS-LP-17
Serum	Cryoglobulin	
Serum	Paraprotein Quantitation	



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HUMAN BODY FLUIDS (cont'd)	<u>General Biochemistry</u> (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified:
Blood (Unless otherwise specified)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	
Serum (cont'd)	Protein electrophoresis assays: (cont'd)	SP 60 Helena SAS Protein electrophoresis Gel, CZE, and CZE Immunodisplacement Using SOP LP089, BIO-IPS-LP-9, BIO-IPS-LP-17
Serum	Protein electrophoresis Report paraprotein if present together with quantitation of paraprotein. Report the degree of immune paresis/background when a paraprotein is present. Report polyclonal increase in gamma globulins if present and decrease in the Gamma region if present.	
Serum	Protein immunodisplacement/Immunofixation Paraprotein classification IgA kappa or lambda IgM kappa or lambda IgG kappa or lambda IgD kappa or lambda IgE kappa or lambda Free Kappa or Free Lambda	
Urine- No Preservative	Electrophoresis Paraprotein quantification Immunofixation Lambda or Kappa free light chains	
Blood- EDTA Whole Blood	HbA1c	Using the TOSOH G11 HPLC BIO-IPS-LP-22
Blood- Serum	Osmolality	Advanced instruments Osmometer model Osmo 1 BIO-IPS-LP-26
Urine- No Preservative		



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CSF	Xanthochromia	In house procedure and Thermo electron corporation UV 500 Spectrophotometry BIO-IPS-LP-1
Sweat- Induced Sweat Sample	Sweat Chloride	Sherwood scientific Model 926S chloride analyser BIO-IPS-LP-16
Renal calculi	Renal calculi	Brucker Alpha FITR infra-red spectrophotometer with ATR attachment BIO-IPS-LP-24
Serum	Light Free chains	Binding site Optilite SOP BIO-IPS-LP-13
	Kappa Light Chain Assay	BIO-IPS-ADS-150 using determination of soluble antigen concentration by turbidimetric
Serum	Lambda Light Chains Assay	BIO-IPS-ADS-151 using determination of soluble antigen concentration by turbidimetric
Faeces	FIT Occult Blood	BIO-IPS-LP-27 using HM-JACKarc Analyser BIO-IPS-ADS-109 latex agglutination using Anti-human haemoglobin sheep antibody sensitised latex suspension
EDTA Whole Blood	DCA HbA1c	BIO-IPS-LP-11 Siemens DCA Advantage. BIO-IPS-ADS-53 using Latex Immunoagglutination Inhibition methodology



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Blood and Urine</p>	<p><u>General Biochemistry</u> (cont'd)</p> <p>Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)</p> <p>Adjusted Calcium; CADJ</p> <p>Albumin/ Creatinine Ratio; MAUC</p> <p>Aldosterone/ Renin Ratio; ALDR</p> <p>Anion Gap; AG</p> <p>Creatinine clearance; CRC</p> <p>Estimated Glomerular Filtration Rate (enzymatic); GFRE</p> <p>Globulins; GLOB</p> <p>LDL Cholesterol (calculated); LDL</p> <p>Non-HDL cholesterol; NHDL</p> <p>Free Androgen Index; FAI</p> <p>Free Light Chain Ratio; KLR</p> <p>Protein/ Creatinine Ratio; TPC</p> <p>Total Cholesterol / HDL Cholesterol Ratio; CHHR</p> <p>Saturated Transferrin; SATR</p> <p>Unconjugated Bilirubin; BITC</p> <p>Urine Amylase 24h; AMYD</p> <p>Urine Calcium 24h; CAD</p> <p>Urine Chloride 24h; CLD</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified:</p> <p>Calculated tests using SOP BIO-IPS-GP-4</p>



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Blood and Urine (unless otherwise stated) (cont'd)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	Calculated tests using SOP BIO-IPS-GP-4
	Urine Creatinine 24h; CRD	
	Urine Magnesium 24h; MGD	
	Urine Paraprotein 24h; PPD	
	Urine Phosphate 24h; PO4D	
	Urine Potassium 24h; KD	
	Urine Protein 24h; TPD	
	Urine Sodium 24h; NAD	
	Urine Urate 24h; UAD	
	Urine Urea 24h; URD	
Serum	SFLT-1/PLGF Ratio	Calculated tests using SOP BIO-IPS-GP-4
END		