


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL</p> <p>9318</p> <p>Accredited to ISO 15189:2022</p>	<p>East Suffolk & North Essex NHS Foundation Trust (ESNEFT)</p> <p>Issue No: 010 Issue date: 12 March 2026</p>	
	<p>Biochemistry Department Ipswich Hospital Heath Road Ipswich Suffolk IP4 5PD</p>	<p>Contact: Karen Edwards Tel: +44 (0) 7591 947809 E-Mail: Karen.Edwards@esneft.nhs.uk Website: https://www.esneft.nhs.uk</p>
<p>Testing performed at the above address only</p>		

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) Roche c702
Serum, Li Heparin or EDTA plasma	Albumin	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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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 Urine- HCl preservative.	Calcium	BIO-IPS-ADS-89 (Blood) BIO-IPS-ADS-27 (Urine) Using - 5-nitro-5'-methyl-BAPTA (NM-BAPTA)
Serum, Li Heparin or EDTA plasma	Carbamazepine	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) (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
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) Roche c702
Blood- Serum or Li Heparin Urine- Hydrochloric acid Preservative	Magnesium	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	Phosphate	BIO-IPS-ADS-126 (Blood) BIO-IPS-ADS-147 (Urine) Using ammonium molybdate
Urine- Random urine or 24-hour urine collection (collected into HCl preservative)		
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-LP-19 25% polyethylene glycol (PEG) solution precipitation
Serum, Li Heparin or EDTA plasma	Macroprolactin	
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.
Serum, Li Heparin or EDTA plasma	Prolactin	BIO-IPS-ADS-76 Sandwich 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	PSA (Total)	Roche Cobas e801 BIO-IPS-ADS-139 Sandwich immunoassay. Monoclonal mouse antibody.
EDTA plasma	PTH	BIO-IPS-ADS-39 Sandwich immunoassay. Monoclonal mouse antibody.
Blood or serum	SFLT-1	BIO-IPS-ADS-62 Sandwich immunoassay Monoclonal mouse antibodies
Serum, Li-Heparin plasma	Vitamin D	BIO-IPS-ADS-1 Competitive immunoassay
Serum, Li Heparin	SHBG	BIO-IPS-ADS-32 Sandwich immunoassay. Monoclonal mouse antibody.
Serum, Li Heparin or EDTA plasma	T3 (Free)	BIO-IPS-ADS-115 Competitive Immunoassay. Monoclonal Sheep antibody.
Serum, Li Heparin or EDTA plasma	T4 (Free)	BIO-IPS-ADS-68 Competitive immunoassay. Monoclonal rabbit antibody.
Serum, Li Heparin or EDTA plasma	Testosterone	BIO-IPS-ADS-73 Competitive immunoassay. Monoclonal sheep antibody.
Serum	Troponin T	BIO-IPS-ADS-90 Sandwich immunoassay (mouse antibody)
Serum, Li Heparin or EDTA plasma	TSH	BIO-IPS-ADS-85 Sandwich immunoassay. Monoclonal mouse 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)
Blood- Serum or Li Heparin	Chloride	Roche Cobas e801
Urine- No Preservative		BIO-IPS-ADS-93 (Blood) ADO247 (Urine) Ion-Selective Electrode (ISE)
Blood, Serum or Li Heparin	Potassium	BIO-IPS-ADS-86 (Blood) BIO-IPS-ADS-145 (Urine) Ion-Selective Electrode (ISE)
Urine No Preservative		
Blood, Serum or Li Heparin	Sodium	BIO-IPS-ADS-97 (Blood) ADO273 (Urine) Ion-Selective Electrode (ISE)
Urine No Preservative		
EDTA whole blood	Ciclosporin	BIO-IPS-CP-2 using Roche Cobas e411 analyser
Serum	Thyroid Receptor Antibody (TRAB)	BIO-IPS-ADS-3 using Competitive immunoassay. Monoclonal mouse antibody
Serum or Li Heparinised Plasma.	Apolipoprotein B	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.



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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)	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 or Li Heparinised Plasma.	Lipoprotein(a)	Roche Cobas e801
Serum or Li Heparinised Plasma.	Beta 2 Microglobulin	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. BIO-IPS-ADS-154 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.
Faeces	Calprotectin	Diasorin Liaison XL LP0060
Faeces	Elastase	BIO-IPS-ADS-42 using chemiluminescent Immunoassay technology
Blood (Unless otherwise specified) Serum	Protein electrophoresis assays:	BIO-IPS-ADS-029 using chemiluminescent Immunoassay technology
Serum	Cryoglobulin	SP 60 Helena SAS Protein electrophoresis Gel, CZE, and CZE Immunodisplacement Using SOP LP089, BIO-IPS-LP-9, BIO-IPS-LP-17
Serum	Paraprotein Quantitation	



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



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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