


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>1187</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p style="text-align: center;">LGC Limited</p> <p style="text-align: center;">Issue No: 071 Issue date: 19 February 2025</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"> Newmarket Road Fordham Ely Cambridgeshire CB7 5WW </td><td style="width: 50%;"> Contact: Rachel Hawkins Tel: +44 (0)1638 720500 Fax: +44 (0)1638 724200 E-Mail: rachel.hawkins@lgcgroup.com Website: www.lgcgroup.com </td></tr> </table>	Newmarket Road Fordham Ely Cambridgeshire CB7 5WW	Contact: Rachel Hawkins Tel: +44 (0)1638 720500 Fax: +44 (0)1638 724200 E-Mail: rachel.hawkins@lgcgroup.com Website: www.lgcgroup.com
Newmarket Road Fordham Ely Cambridgeshire CB7 5WW	Contact: Rachel Hawkins Tel: +44 (0)1638 720500 Fax: +44 (0)1638 724200 E-Mail: rachel.hawkins@lgcgroup.com Website: www.lgcgroup.com		
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
<p>ANIMAL BODY FLUIDS</p> <p>Equine Urine and Blood (plasma) Canine Urine and Blood (plasma)</p>	<p><u>Chemical and Biochemical Tests as a drug surveillance service for animal sporting authorities</u></p> <p>Selective detection, identification and confirmation of substances prohibited within the International Agreement on Breeding and Racing.</p> <p>Except for the substances and methods (and categories of substances and methods) prohibited at all times, any substance that is capable at any time of causing an action or effect, or both an action and effect, within one or more of the following mammalian body systems</p> <ul style="list-style-type: none"> (a) the nervous system (b) the cardiovascular system (c) the respiratory system (d) the digestive system (e) the urinary system (f) the reproductive system (g) the musculoskeletal system (h) the blood system (i) the immune system (except for licensed vaccines against infectious agents) (j) the endocrine system. (k) Endocrine secretions and their synthetic counterparts; (l) Masking agents 	<p>Documented in-house methods using:</p> <p>Liquid and solid phase extraction, Liquid chromatography (LC) and Gas chromatography (GC)</p> <p>Mass spectrometry (MS), ELISA immunoassay, Dialysis, Spectrometry (single wavelength and diode array colourimetry)</p> <p>Screening using flexible scope (SOP 4016)</p> <p>Screening Method codes: 4095, 4088, 3959, 6655, 4107, 8129, 8131, 4110, 4081, 4093, 4101, 4087, 4105, 6657</p> <p>Confirmation using flexible scope (SOP 4016) Method SOP 3953</p>



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ANIMAL BODY FLUIDS (cont'd)	<u>Chemical and Biochemical Tests as a drug surveillance service for animal sporting authorities</u> (cont'd)	
	Quantitation of substances affecting blood coagulation and anti-infectious substances	Documented In House methods:
Equine Urine	Hydrocortisone	by LC-MS (SOP 3957)
Equine Urine	Salicylic Acid	by LC-MS (SOP 3959)
Equine Plasma	Salicylic Acid	by LC-MS (SOP 3958)
Equine Urine	Confirmation and quantitation of Prednisolone	by LC-MS (SOP 3967)
Equine Urine (unpreserved)	3-Methoxytryamine	by LC-MS (SOP 3954)
Equine Urine	Boldenone	by GC-MS (SOP 3955)
Equine Urine	Estradiol	by GC-MS (SOP 3956)
Equine Urine	Confirmation and Quantitation of Testosterone	Documented in-house method SOP 3961 using LC-MS/MS (Waters and AB Sciex)
Equine (Mare/Filly and Gelding) Plasma	Confirmation and Quantitation of: Testosterone (Threshold - 100pg/ml); [50-500pg/ml]	by LC-MS (SOP 3960)
Canine Urine	Hydrocortisone	by LCMSMS (SOP 41947)
Equine, Canine and other animal species - Blood and Urine	Confirmation of Proteotypic peptides associated with Exogenous Erythropoietin and analogues (including recombinant human preparations such as epoetin, darbepoietin and miricera)	Documented In House methods using selective extraction, digestion and analysis by LC-MS Flexible Scope SOP 4016 Method SOP 3953, 3948 and 3947
Equine Urine and Blood (plasma)	Screening and confirmation of proteotypic peptide sequences derived from exogenous proteins or peptides	Documented In House methods using selective extraction, digestion and analysis by LC-MS Flexible Scope SOP 4016; Methods SOP 3970, 4104, 4105, 3953
Equine Blood (plasma)	Screening and confirmation of Total Carbon Dioxide	by Beckman UniCel® DxC 600 (SOP 3969)



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ANIMAL BODY FLUIDS (cont'd)	<u>Chemical and Biochemical Tests as a drug surveillance service for animal sporting authorities (cont'd)</u>	
Equine Urine	Screening and quantitation of cobalt and arsenic	by ICP-MS (SOP 4649 and 3965)
Equine Plasma	Screening and quantitation of cobalt	by ICP-MS (SOP 3966 and SOP 3968)
Canine Urine	Screening and quantitation of cobalt and arsenic	by ICP-MS (SOP 27959 and 18834)
Equine Plasma	Screening for Arsenic	by ICP-MS (SOP 3968)
Equine Plasma	Quantitation for Arsenic	by ICP-MS (SOP 3992)
Blood samples for the Veterinary Defence Society and sales/purchase examinations	Screening and confirmation of: Non-steroidal anti-inflammatory drugs Sedatives Corticosteroids Anabolic steroids	Documented in-house methods using: Liquid and solid phase extraction, dialysis Liquid chromatography (LC) and Gas chromatography (GC) Mass spectrometry (MS) UV spectrometry Screening using flexible scope (SOP 4016) Method codes: SOP 4110, 4107, 4093, 4081, 4101 Confirmation using flexible scope (SOP 4016) Method SOP 3953
Equine and Canine Hair	Screening and confirmation of: Anabolic steroids Anabolic steroid esters Corticosteroids Basic, acidic and general drugs	Documented in-house methods using: Liquid and solid phase extraction, Liquid chromatography (LC-MS and LC-HR-MS) Gas chromatography (GC-MS) Flexible Scope SOP 4016 Screening method codes: SOP 4090 Confirmatory analysis: Flexible Scope SOP 4016 Methods SOP 3949, 3953



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ANIMAL BODY FLUIDS (cont'd)	<u>Chemical and Biochemical Tests as a drug surveillance service for animal sporting authorities</u> (cont'd)	
Equine Plasma	Qualitative Confirmatory analysis (Gene Doping)	Addition of new transgenes or vector features for qualitative confirmatory analysis (by PCR) using in-house validation method SOP607 and under Flexible Scope procedure SOP 4016
Equine Plasma	Qualitative Confirmatory analysis (Gene Doping) EPO and VEGFA transgenes	by PCR using Life Technologies Vii7 QuantStudio (SOP 550)



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HUMAN BODY FLUIDS	<u>Medical and Legal Analysis and Analysis for Coroner Medical Investigation, WorkPlace Drug Analysis</u>	
Human Urine (preserved and unpreserved) Human Blood (preserved and unpreserved)	Screening and confirmation Psychoactive Substances and related compounds: Flexible scope SOP 4016 Method series codes as defined in: SOP 4022 (details specific method codes) LOC determination documented in SOP 16603	Documented in-house methods using hydrolysis, liquid/liquid and solid phase extraction SOP 3988 and SOP 3981. Liquid chromatography (LC-HR-MS and LC-MS)
Human Urine (preserved and unpreserved) Human Blood (preserved and unpreserved)	Screening Psychoactive Substances [Cut-off]: <u>Synthetic Cannabinoids:</u> ADB-BUTINACA [0.2ng/ml] <u>Opioids:</u> Isotonitazine [0.2ng/ml] Fentanyl [1.0ng/ml] <u>Benzodiazepines</u> Bromazolam [1.0ng/ml] <u>Cathinones</u> Mephedrone [1ng/ml] MDPHP [1ng/ml] <u>Acrycyclohexylamines</u> Ketamine [1ng/ml] <u>Indolylalkylamines</u> N,N-diethyltryptamine [1ng/ml] <u>Piperazine derivatives</u> Chlorophenylpiperazine [1ng/ml]	Documented in-house methods using hydrolysis, liquid/liquid and solid phase extraction SOP 3988 and SOP 3981. Liquid chromatography (LC-HR-MS and LC-MS)



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HUMAN BODY FLUIDS (cont'd)	<u>Medical and Legal Analysis and Analysis for Coroner Medical Investigation, WorkPlace Drug Analysis (cont'd)</u>	
Human Urine (unpreserved)	Screening and confirmation Anabolic Steroids, NPS and related compounds: Flexible scope SOP 4016 Method series codes as defined in: SOP 4022 (details specific method codes) LOC determination documented in SOP 16603	Documented in-house methods using hydrolysis and solid phase extraction SOP 3972 Liquid chromatography (LC-HR-MS and LC-MS) Gas chromatography (GC-MS)
Human Urine (unpreserved)	Screening Anabolic Steroids [Cut-off]: Clenbuterol [2ng/ml] 3-Hydroxy Stanozolol [5ng/ml] 17a-Trenbolone [10ng/ml]	Documented in-house methods using hydrolysis and solid phase extraction SOP 3972 Liquid chromatography (LC-HR-MS and LC-MS) Gas chromatography (GC-MS)
Human Urine (unpreserved)	Confirmation of Anabolic Steroids [Limit of confirmation]: 19NA [15ng/ml] 17-epimethandienone [25ng/ml] 3-OH stanozolol [5ng/ml] 17a-Trenbolone [10ng/ml] Drostanolone M1 [10ng/ml] Epimetendiol [5ng/ml]	Documented in-house methodology (SOP 16603) using: <ul style="list-style-type: none"> • hydrolysis, solid-phase extraction • HRAM LC-MS or GC-MS
Human Urine (preserved and unpreserved)	Confirmation Psychoactive Substances and related compounds [Limit of confirmation]: 4F-Methylphenidate [1ng/ml] Bufotenine [5ng/ml] Etizolam [1ng/ml] Fluoromethamphetamine [1ng/ml] MDMB-4en-PINACA (metabolite) [1ng/ml] Psilocin [20ng/ml]	Documented in-house methodology (SOP 16603) using: <ul style="list-style-type: none"> • hydrolysis, solid-phase extraction • hydrolysis liquid/liquid extraction • HRAM LC-MS



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HUMAN BODY FLUIDS (cont'd)	<u>Medical and Legal Analysis and Analysis for Coroner Medical Investigation and WorkPlace Drug Analysis (cont'd)</u>	
Human Blood (preserved and unpreserved)	Confirmation Psychoactive Substances and related compounds [Limit of confirmation]: ADB Butinaca [0.5ng/ml] Bromazolam [1.0ng/ml] MDMB-4en-PINACA [1.0ng/ml] MDMB-4en-PINACA (metabolite) [1.0ng/ml] MDMB BUTINACA butanoic acid metabolite [0.5ng/ml] MDPHP [1ng/ml] Bisoprolol [1.0ng/ml] Cetirizine [1.0ng/ml] Protonitazene [0.5ng/ml]	Documented in-house methodology (SOP 16603) using: <ul style="list-style-type: none"> liquid/liquid extraction and HRAM LC-MS and/or solid-phase extraction, and HRAM LC-MS
HUMAN BODY FLUIDS	<u>Workplace Drugs Analysis</u>	
Human Urine (unpreserved)	<u>Confirmation and Quantitation for the presence of the following drugs of abuse and relevant metabolites (cut-off limit; calibration range)</u> <u>Amphetamines:</u> Amphetamine (200ng/ml; 100-450ng/ml) MBDB (200ng/ml; 100-450ng/ml) Methamphetamine (200ng/ml; 100-450ng/ml) MDA (200ng/ml; 100-450ng/ml) MDEA (200ng/ml; 100-450ng/ml) MDMA (200ng/ml; 100-450ng/ml) <u>Barbiturates</u> Allobarbitol (150ng/ml; 75-337.5ng/ml) Butobarbital (butobarbitone) (150ng/ml; 75-337.5ng/ml) Phenobarbital (phenobarbitone) (150ng/ml; 75-337.5ng/ml) Secobarbital (150ng/ml; 75-337.5ng/ml)	Documented in-house methodology(SOP8295; SOP8296; SOP8297) using: <ul style="list-style-type: none"> Hydrolysis Sciex 4000API LCMS



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HUMAN BODY FLUIDS Human Urine (unpreserved)	<u>Workplace Drugs Analysis</u> Confirmation and Quantitation for the presence of the following drugs of abuse and relevant metabolites (cut-off limit; calibration range) <u>Cannabis</u> 11-Nor-9-carboxy- Δ^9 -tetrahydrocannabinol (THC-COOH) (15ng/ml; 7.5-33.75ng/ml) <u>Cocaine</u> Benzoylecgonine (100ng/ml; 50-225ng/ml) Phencyclidine (PCP) (25ng/ml; 12.5-56.25ng/ml) <u>Opiates</u> 6-MAM (10ng/ml; 5.0-22.5ng/ml) Codeine (300ng/ml; 150-675ng/ml) Dihydrocodeine (300ng/ml; 150-675ng/ml) Morphine(300ng/ml; 150-675ng/ml) <u>Opioids</u> Hydrocodone (100ng/ml; 50-225ng/ml) Hydromorphone (100ng/ml; 50-225ng/ml) Oxycodone (100ng/ml; 50-225ng/ml) Oxymorphone (100ng/ml; 50-225ng/ml) Tramadol (100ng/ml; 50-225ng/ml) <u>Methadone</u> EDDP (75ng/ml; 37.5-168.75ng/ml) Methadone (250ng/ml; 125-562.5ng/ml) LSD (1.0ng/ml; 0.5-2.25ng/ml) Propoxyphene (300ng/ml; 150-675ng/ml)	Documented in-house methodology(SOP8295; SOP8296; SOP8297) using: <ul style="list-style-type: none">Hydrolysis Sciex 4000API LCMS



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HUMAN BODY FLUIDS	<u>Workplace Drugs Analysis</u>	
Human Urine (unpreserved)	<p><u>Confirmation and Quantitation for the presence of the following drugs of abuse and relevant metabolites (cut-off limit; calibration range)</u></p> <p>Benzodiazepines Diazepam (100ng/ml; 50-225ng/ml) Lorazepam (100ng/ml; 50-225ng/ml) Nordiazepam (100ng/ml; 50-225ng/ml) Oxazepam (100ng/ml; 50-225ng/ml) Temazepam (100ng/ml; 50-225ng/ml)</p> <p><u>Ketamine (75ng/ml; 37.5-168.75ng/ml)</u> <u>Norketamine (75ng/ml; 37.5-168.75ng/ml)</u></p> <p><u>Gabapentinoids</u> Gabapentin (1000ng/ml; 500-2250ng/ml) Pregabalin (250ng/ml; 125-562.5ng/ml)</p> <p><u>Z-DRUGS</u> Zaleplon (100ng/ml; 50-225ng/ml) Zolpidem (100ng/ml; 50-225ng/ml)</p> <p>Methaqualone (150ng/ml; 75-337.5ng/ml)</p> <p>Fentanyl (1.0ng/ml; 0.5-2.25ng/ml)</p>	<p>Documented in-house methodology(SOP8295; SOP8296; SOP8297) using:</p> <ul style="list-style-type: none"> Hydrolysis <p>Sciex 4000API LCMS</p>
Human Urine (unpreserved)	<p><u>Confirmation and Quantitation for the presence of the following drugs of abuse and relevant metabolites (cut-off limit; calibration range)</u></p> <p><u>Opioids</u> Buprenorphine (2ng/ml; 1.0-4.5ng/ml) Norbuprenorphine (2ng/ml; 1.0-4.5ng/ml)</p>	<p>Documented in-house methodology(SOP8295; SOP8298; SOP8299) using:</p> <ul style="list-style-type: none"> Hydrolysis <p>Waters TQ-S LCMS</p>



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HUMAN BODY FLUIDS (cont'd) Human Hair	<u>Medical Legal and Workplace Drugs Analysis</u> Screening and Quantitative analysis for the presence of the following drugs of abuse and relevant metabolites (cut-off limit; calibration range) Amphetamine class: Amphetamine (200 pg/mg; 40-800 pg/mg) Methamphetamine (200 pg/mg; 40-800 pg/mg) MDA (200 pg/mg; 40-800 pg/mg) MDMA (200 pg/mg; 40-800 pg/mg) MDEA (200 pg/mg; 40-800 pg/mg) Benzodiazepine class: Alprazolam (50 pg/mg; 40-800 pg/mg) Bromazepam (50 pg/mg; 40-800 pg/mg) Diazepam (50 pg/mg; 40-800 pg/mg) Flunitrazepam (50 pg/mg; 40-800 pg/mg) Lorazepam (50 pg/mg; 40-800 pg/mg) Nordiazepam (50 pg/mg; 40-800 pg/mg) Oxazepam (50 pg/mg; 40-800 pg/mg) Cannabis: THC (100 pg/mg; 40-800 pg/mg) Cocaine: Cocaine (500 pg/mg; 40-800 pg/mg) Opiate class: 6-monoacetylmorphine ; 6-MAM (200 pg/mg; 40-800 pg/mg) Morphine (200 pg/mg; 40-800 pg/mg)	Documented in-house methods (SOP3990) using LC-MS/MS



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HUMAN BODY FLUIDS (cont'd) Human Hair (cont'd)	<u>Medical Legal and Workplace Drugs Analysis (cont'd)</u> Confirmation and quantitative analysis of the following drugs of abuse and relevant metabolites (cut-off limit; calibration range) Amphetamine class: Amphetamine (200 pg/mg; 16-1600 pg/mg) Methamphetamine (200 pg/mg; 16-1600 pg/mg) MDA (200 pg/mg; 16-1600 pg/mg) MDMA (200 pg/mg; 16-1600 pg/mg) MDEA (200 pg/mg; 16-1600 pg/mg) Benzodiazepine class: Alprazolam (50 pg/mg; 16-1600 pg/mg) Bromazepam (50 pg/mg; 16-1600 pg/mg) Diazepam (50 pg/mg; 16-1600 pg/mg) Flunitrazepam (50 pg/mg; 16-1600 pg/mg) Lorazepam (50 pg/mg; 16-1600 pg/mg) Nordiazepam (50 pg/mg; 16-1600 pg/mg) Oxazepam ((50 pg/mg; 16-1600 pg/mg) Cannabis: THC (50 pg/mg; 16-1600 pg/mg) Cocaine: Benzoylecognine;BZE (50 pg/mg; 16-1600 pg/mg) Cocaethylene (50 pg/mg; 16-1600 pg/mg) Cocaine (500 pg/mg; 16-1600 pg/mg) Ecgonine methyl ester;EME (50 pg/mg; 16-1600 pg/mg) Norcocaine (50 pg/mg; 16-1600 pg/mg)	Documented in-house methods (SOP3976) using LC-MS/MS



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HUMAN BODY FLUIDS (cont'd)	<u>Medical Legal and Workplace Drugs Analysis (cont'd)</u>	
Human Hair (cont'd)	Confirmation and quantitative analysis of the following drugs of abuse and relevant metabolites (cut-off limit; calibration range) Opiate class: 6-monoacetylmorphine ; 6-MAM (200 pg/mg; 16-800 pg/mg) Morphine (200 pg/mg; 16-800 pg/mg)	Documented in-house methods (SOP3976) using LC-MS/MS
Human Head Hair	Confirmation and quantitative analysis of alcohol as ethyl glucuronide (EtG): Cut-offs: 5 pg/mg and 30 pg/mg Calibration range: 2.5-150 pg/mg	Documented in house methods (SOP10739, using solid phase extraction followed by LC-MS/MS)
Human Fingerprints	Confirmation analysis for the presence of the following drugs of abuse and relevant metabolites (cut-offs) Amphetamine class: Amphetamine (20 pg/composite print) Methamphetamine (20 pg/composite print) MDA (55 pg/composite print) MDMA (40 pg/ composite print) MDEA (40 pg/composite print) Cannabis: THC (20 pg/composite print) Cocaine: Cocaine (25 pg/composite print) BZE (25 pg/ composite print) Opiate class: 6-monoacetylmorphine ; 6-MAM (30 pg/print) Codeine (30 pg/composite print) Dihydrocodeine (30 pg/composite print) Morphine (30 pg/composite print)	Documented in-house methods (SOP 3985) using liquid extraction and LC-MS/MS



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<p>HUMAN NUTRITIONAL SUPPLEMENTS</p> <p>Human nutritional supplements including Powders, tablets, capsules, gels, drinks/liquids, nutritional bars and herbal preparations.</p>	<p><u>Chemical and Biochemical Tests as a drug surveillance service</u></p> <p>Screening of substances prohibited in sport and other pharmacologically active substances including:</p> <p>Anabolic steroids and agents Stimulants Beta-2-agonists Narcotics Beta-blockers Diuretics and other masking Agents</p> <p>Specific Target compounds are available within the "Testing Specification for Nutritional Supplements" which is available when analysis is requested.</p>	<p>Documented in-house methods using: Liquid and solid phase extraction, Gas chromatography (GC) Liquid chromatography (LC) Mass spectrometry (MS) and LC-HR-MS Method codes: SOP 4077, 4052, 4047, 4046 and 4050</p>



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<p>ANIMAL FOOD AND FEED (products and raw ingredients)</p> <p>Compound animal feeds, feed supplements and associated ingredients</p>	<p><u>Chemical and Biochemical Tests as a drug surveillance service</u></p> <p>Screening of: Naturally Occurring Prohibited substances (NOPS) and prohibited feed additives including: Morphine Hyoscine Atropine Hordenine Methylbufotenine Bufotenine Dimethyltryptamine Synephrine Phenylephrine Caffeine Theophylline Theobromine</p> <p>Cathinone Ephedrine Lupanine Norephedrine Norpseudoephedrine Oripavine Papavarine Phenylephrine Pseudoephedrine Synephrine Thebaine</p> <p>Clenbuterol Ractopamine Zilpaterol</p>	<p>Documented in-house methods using: Liquid and solid phase extraction, Liquid chromatography mass spectrometry (LC-MS) SOP 4041</p>
END		