

Akrediteringens omfattning, Klinisk farmakologi

Komponent/Undersökning	System	Metod/Mätprincip	Enhet	Lab/Ort
Dopinglaboratoriet				
ABP, Athlete Biological Passport Erythrocyter partikelkoncentration (B-EPK) Erythrocyter medelvolym (Erc(B)-MCV) Erythrocyter, volymfraktion (B-EVF) Hemoglobin (B-Hb) Hemoglobin massa (Erc(B)-MCH) Hemoglobinmassakoncentration (Erc (B)-MCHC) Leukocyter partikelkoncentration (B-LPK) Trombocyter partikelkoncentration (B-TPK) Retikulocytprocent (RET%) (Sysmex), endast idrottsprover Storleksvariation av röda blodkroppar (RDW-SD) (Sysmex), endast idrottsprover Fraktion av omogna retikulocyter (IRF) (Sysmex), endast idrottsprover	Blod	Flödescytometri med fluorescense Impedans	10 ¹² /L fL % g/dL pg g/dL 10 ⁹ /L 10 ⁹ /L % fL %	Huddinge
Ephedrines Ephedrine Methylephedrine Cathine Pseudoephedrine	Urin	LC-HRMS	µg/mL	Huddinge
Erythropoietin	Urin, plasma, serum	SAR PAGE + blott		Huddinge

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Dopinglaboratoriet				
Erythropoietin	Urin, plasma, serum	Dubbel blott		Huddinge
Formoterol	Urin	LC-HRMS	ng/mL	Huddinge
GC-C-IRMS - Determination of testosterone related compounds origin	Urin	LC/GC-C-IRMS	Delta C13 ‰ *	Huddinge
GC-MS/MS screening Endogena och exogena steroider, β 2 agonister	Urin	GC-MS/MS	ng/mL	Huddinge
GC-MS/MS, konfirmering	Urin	GC-MS/MS	ng/mL	Huddinge
GC-MS/MS, konfirmering, Steroid profil	Urin	GC-MS/MS	ng/mL	Huddinge
GH Screening Rekombinerat och hypofysiärt tillväxthormon	Serum	Differential Immunolimino-metrisk metod	ng/mL	Huddinge
GH Konfirmering Rekombinerat och hypofysiärt tillväxthormon	Serum	Differential Immunolimino-metrisk metod	ng/mL	Huddinge
hGH biomarkör	Serum	Radioactive Immouno-Assay		Huddinge
Humant Koriongonadotropin (hCG)	Urin	Enzym-immunoassay med fluorescens-detektering (ELFA).	mIU/mL	Huddinge
Konfirmering av dopingklassade medel, LC-HRMS	Urin	LC-HRMS	ng/mL	Huddinge
Meldonium, konfirmering	Urin	LC-MS/MS	μ g/mL	Huddinge
Morfin	Urin	LC-MS/MS	ng/mL	Huddinge
19-Norandrosteron	Urin	GC-MS/MS	ng/mL	Huddinge

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Dopinglaboratoriet				
pH	Urin	Elektrod		Huddinge
Salbutamol	Urin	LC-HRMS	ng/mL	Huddinge
Screening av dopingklassade medel, LC-HRMS	Urin	LC-HRMS	ng/mL	Huddinge
Screening av förbjudna peptider	Urin	LC-HRMS	ng/mL	Huddinge
Specifik vikt	Urin	Turbidimetri		Huddinge
THC-konfirmering	Urin	GC-MS/MS	ng/mL	Huddinge

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Farmakologiska laboratoriet, Läkemedel				
Aciklovir CMMG Ganciklovir	Serum	LC-MS/MS	µmol/L	Huddinge
Amikacin	Serum	QMS immunoassay	µg/mL	Huddinge
Antibio Linezolid Meropenem Piperacillin	Plasma/ Serum	LC-MS/MS	µg/mL	Huddinge
Antiep I 10,11-dihydro-10-hydroxy-carbamazepin Gabapentin Lakosamid	Plasma/ serum	LC-MS/MS	µmol/L	Huddinge

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Farmakologiska laboratoriet, Läkemedel				
Perampanel Pregabalin Rufinamid Zonisamid				
Antikoagulantia Dabigatran Rivaroxaban	Plasma	LC-MS/MS	ng/mL	Huddinge
Azol Flukonazol Isavukonazol Itrakonazol OH-Itrakonazol Posakonazol Vorikonazol	Plasma/ serum	LC-MS/MS	µg/mL	Huddinge
Bensodiazepiner i plasma/serum Alprazolam Diazepam Lorazepam Midazolam Nitrazepam Nordiazepam Oxazepam Temazepam	Plasma/ Serum	LC- HRMS	nmol/L	Huddinge
CYP2D6genotypning (*3) (*4) (*10) (*17) (*41)	DNA	PCR alleldiskrimination	-	Huddinge
CYP2D6 Copy number analys	DNA	PCR	-	Huddinge

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Farmakologiska laboratoriet, Läkemedel				
CYP2C9genotypning (*2) (*3)	DNA	PCR alleldiskrimination	-	Huddinge
CYP2C19genotypning (*2) (*3) (*17)	DNA	PCR alleldiskrimination	-	Huddinge
CYP3A5genotypning (*3)	DNA	PCR alleldiskrimination	-	Huddinge
Digoxin	Plasma/ serum	Immunokemisk DRI-metodik	nmol/L	Huddinge
DPYD-genotypning	DNA	PCR alleldiskrimination	-	Huddinge
Etambutol	Plasma/ serum	LC-MS/MS	µmol/L	Huddinge
Fenobarbital	Plasma/ Serum	Immunokemisk Cedia-metodik	µmol/L	Huddinge
Fenytoin	Plasma/ Serum	Immunokemisk Cedia-metodik	µmol/L	Huddinge
FVMACK Amitriptylin ..Nortriptylin Citalopram Desmetylcitalopram Fluoxetin Desmetylfluoxetin Klomipramin Desmetyklomipramin Metadon	Plasma/ Serum	LC-MS/MS	nmol/L nmol/L nmol/L nmol/L nmol/L nmol/L nmol/L nmol/L ng/m/L	Huddinge

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Farmakologiska laboratoriet, Läkemedel				
Gentamicin	Serum	QMS immunoassay	µg/mL	Huddinge
HZRS Haloperidol Zuklopentixol Risperidon Hydroxyrisperidon Sertralin Norsertalin	Plasma/ serum	LC-MS/MS	nmol/L	Huddinge
Imatinib	Plasma/ serum	LC-MS/MS	ng/mL	Huddinge
Immunosuppressiva i helblod Ciklosporin Everolimus Sirolimus Takrolimus	Blod	LC-MS/MS	ng/mL	Huddinge
Karbamazepin	Plasma/ Serum	Immunokemisk Cedia-metodik	µmol/L	Huddinge
Klonazepam	Plasma/ Serum	LC-MS/MS	nmol/L	Huddinge
Klozapin, Quetiapin och Venlafaxin Klozapin Desmetylklozapin Quetiapin Venlafaxin Desmetylvenlafaxin	Plasma/ serum	LC-MS/MS	nmol/L	Huddinge
Lamotrigin	Plasma/ Serum	QMS immunoassay	µmol/L	Huddinge
Levetiracetam	Plasma/ serum	EIA, spektrofotometri	µmol/L	Huddinge

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Farmakologiska laboratoriet, Läkemedel				
MAT Metylfenidat Ritalinsyra Atomoxetin 4-OH-atomoxetin	Plasma/ Serum	LC-MS/MS	ng/mL	Huddinge
Mykofenolsyra	Plasma/ serum	LC-MS/MS	µmol/L	Huddinge
OMPA Olanzapin .. Mirtazapin Desmetylmirtazapin Paroxetin Aripiprazol Dehydroaripirazol	Plasma/ Serum	LC-MS/MS	nmol/L	Huddinge
Perfenazin	Plasma/ serum	LC-MS/MS	nmol/L	Huddinge
PI Pyrazinamid Isoniazid Acetylisoniazid	Plasma/ serum	LC-MS/MS	µg/mL	Huddinge
RIF Rifampicin Rifabutin	Plasma/ serum	LC-MS/MS	µg/mL	Huddinge
Teofyllin	Plasma/ serum	Immunokemisk Cedia-metodik	µmol/L	Huddinge
Teikoplanin	Serum	QMS immunoassay	µg/mL	Huddinge
Tobramycin cv från 10-16	Serum	QMS immunoassay	µg/mL	Huddinge
Topiramet	Plasma/ serum	QMS immunoassay	µmol/L	Huddinge

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Farmakologiska laboratoriet, Läkemedel				
TPMT-genotypning	Blod	PCR alleldiskrimination		Huddinge
Valproat	Plasma/ serum	Immunokemisk Cedia-metodik	µmol/L	Huddinge
Vankomycin	Serum	QMS immunoassay	µg/mL	Huddinge

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Farmakologiska laboratoriet, Drogranalys, Screening				
Amfetamin **	Saliv	EIA	µg/L	Huddinge
Anabola Androgena Steroider utanför idrott **	Urin	GC-MS/MS	µg/L	Huddinge
Bensodiazepiner **	Saliv	EIA	µg/L	Huddinge
Cannabis **	Saliv	EIA	µg/L	Huddinge
Barbiturater **	Urin	CEDIA	µg/L	Huddinge
Bensodiazepiner **	Urin	CEDIA	µg/L	Huddinge
Buprenorfin **	Urin	CEDIA	µg/L	Huddinge
Centralstim. Aminer **	Urin	CEDIA	µg/L	Huddinge
Dextropropoxifen **	Urin	CEDIA	µg/L	Huddinge
Etylglukuronid **	Urin	EIA	mg/L	Huddinge

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Farmakologiska laboratoriet, Droganalys, Screening				
Fencyklidin **	Urin	CEDIA	µg/L	Huddinge
Fosfatidyletanol (PEth) 16:0/18:1	Blod	LC-MSMS	µmol/L	Huddinge
GHB **	Urin	Enzymatisk	mg/L	Huddinge
Greiner screening **	Saliv	LC-MS/MS	µg/L	Huddinge
Internetdroger MDPV Nafyron PVP	Urin	LC-HRMS	µg/L	Huddinge
Kannabis **	Urin	CEDIA	µg/L	Huddinge
Kokainmetabolit **	Saliv	EIA	µg/L	Huddinge
Kokainmetabolit **	Urin	CEDIA	µg/L	Huddinge
Kreatinin **	Urin	Fotometrisk	mmol/L	Huddinge
LSD **	Urin	CEDIA	µg/L	Huddinge

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Farmakologiska laboratoriet, Drogranalys, Screening				
Läkemedel och växtdroger, screening** Atropin Hydrokodon Hydromorfon	Urin	LC-HRMS	µg/L	Huddinge
Metadon **	Urin	CEDIA	µg/L	Huddinge
Metamfetamin **	Saliv	EIA	µg/L	Huddinge
Morfin **	Saliv	EIA	µg/L	Huddinge
Opiater **	Urin	CEDIA	µg/L	Huddinge
Oxikodon **	Urin	EIA	µg/L	Huddinge
Spice-metaboliter **	Urin	EIA	µg/L	Huddinge
Stor Drogtest i Saliv (Quantisal), LC-MS/MS Screening	Saliv	LC-MS/MS	µg/L	Huddinge
Tramadol **	Saliv	EIA	µg/L	Huddinge
Tramadol **	Urin	EIA	µg/L	Huddinge

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Farmakologiska laboratoriet, Droganalys, Verifiering				
Anabola Androgena Steroider utanför idrott **	Urin	GC-MS/MS	µg/L	Huddinge
Bensodiazepiner ** 7-Aminoflunitrazepam 7-Aminonitrazepam 7-Aminoklonazepam 4-Hydroxyalprazolam 4-Hydroxymidazolam 4-Hydroxytriazolam Desmetyldiazepam Lorazepam Oxazepam Temazepam	Urin	LC-MS/MS	µg/L	Huddinge
Buprenorfin **	Urin	LC MS/MS	µg/L	Huddinge
Centralstimulerande aminer ** Amfetamin MDA MDMA Metamfetamin	Urin	LC MS/MS	µg/L	Huddinge
Etylglukuronid ** Etylsulfat	Urin	LC-MS/MS	mg/L	Huddinge
Greiner verifiering **	Saliv	LC-MS/MS	µg/L	Huddinge
Internetdroger/missbruksläkemedel/växtdroger, verifiering** Atropin Hydrokodon Hydromorfon Zolpidem	Urin	LC-HRMS	µg/L	Huddinge
Kokainmetabolit **	Urin	LC-MS/MS	µg/L	Huddinge

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Opiatalkaloider ** Etylmorfin-6-glukuronid Kodein-6-glukuronid Morfin-3-glukuronid 6-MAM	Urin	LC-MS/MS	µg/L	Huddinge
Stor Drogtest i Saliv (Quantisal), LC-MS/MS Verifiering **	Saliv	LC-MS/MS	µg/L	Huddinge
Tetrahydrocannabinol COOH **	Urin	LC-MS/MS	µg/L	Huddinge
Övriga opioider, verifiering** Dextropropoxyfen Metadon Oxykodon Tramadol	Urin	LC-HRMS	µg/L	Huddinge