

## MassTox<sup>®</sup> TDM Series A

# Therapeutic Drug Monitoring by LC-MS/MS



THERAPEUTIC DRUG MONITORING

SPEED UP YOUR ANALYSIS!

**CS**QUANT

NEW SOFTWARE AVAILABLE

- ▶ Unique modular system for therapeutic drug monitoring
- ▶ 1 Analytical column – 1 sample prep – nearly 200 parameters
- ▶ Almost all parameters safeguarded by internal standards
- ▶ 3PLUS1<sup>®</sup> or 6PLUS1<sup>®</sup> multilevel calibrator sets
- ▶ *MassCheck*<sup>®</sup> plasma controls
- ▶ Continuously extended parameter menu

# Modular System for Therapeutic Drug Monitoring by LC-MS/MS

The **MassTox**<sup>®</sup> TDM Series A from Chromsystems allows the fast and efficient monitoring of nearly 200 parameters without column switching or change of the mobile phases, thereby helping to minimise the workload in the laboratory. The modular system has been comprehensively validated and provides everything

that is required for the analysis. Reagents can be combined to meet the individual needs. For a large number of patient samples of antiepileptic drugs or mycophenolic acid, sample preparation can be automated. Further sample preparation sets for automation are under development.

## The three components of **MassTox**<sup>®</sup> TDM Series A

### **MassTox**<sup>®</sup> Basic Kit A (order no. 92111)

The Basic Kit A used for all determinations contains all components required for a complete sample preparation and all necessary mobile phases.

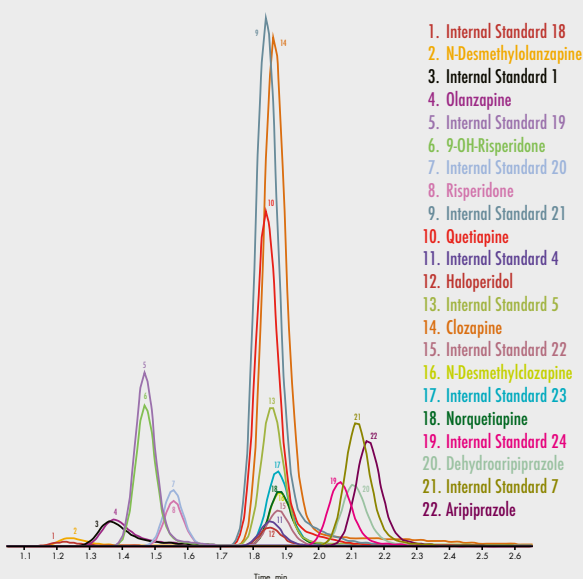
### **MassTox**<sup>®</sup> MasterColumn<sup>®</sup> A (order no. 92110)

The analytical column enables the analysis of nearly 200 parameters. No column switching or changes in the setup of the massspectrometer are required.

### **MassTox**<sup>®</sup> TDM Parameter Sets (order no. 92912/XT-92924)

The parameter menu of nearly 200 analytes is divided into 13 parameter sets. All of them contain all relevant calibrators, quality controls and internal standards.

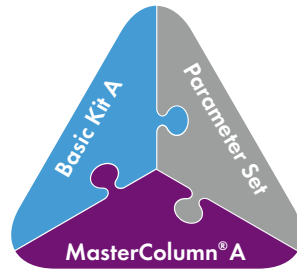
### **MassTox**<sup>®</sup> Neuroleptics 1/EXTENDED



Representative Chromatogram of a Parameter Set

### Identical Sample Preparation for all Parameter Sets:

- 1 Add 800 µl Internal Standard Mix to 12 ml Precipitation Reagent (= mixture A).
- 2 Pipette 50 µl sample/calibrator/**MassCheck**<sup>®</sup> control into a 1.5 ml reaction vial.
- 3 Add 25 µl Extraction Buffer, mix briefly (vortex) and incubate 2 min.
- 4 Add 250 µl of mixture A, mix 30 s (vortex) and centrifuge 5 min.
- 5 Dilute supernatant with Dilution Buffer (depending on instrument sensitivity) and inject into LC-MS/MS system.



Basic Kit A + MasterColumn® A  
Single Parameter Sets

Antiarrhythmic Drugs	Antidepressants 1/ <i>EXTENDED</i>	Antidepressants 2/Psychostimulants/ <i>EXTENDED</i>
Anti-HIV Drugs	Antiepileptic Drugs All-in-One Method	Antimycotic Drugs/ <i>EXTENDED</i>
Benzodiazepines 1	Benzodiazepines 2	Mycophenolic Acid
Neuroleptics 1/ <i>EXTENDED</i>	Neuroleptics 2/ <i>EXTENDED 2</i>	Tricyclic Antidepressants TCA 1
Tricyclic Antidepressants TCA 2	<b>CONTINUOUSLY EXTENDED &gt;</b>	

## Take control of your data!

**CSQUANT** eases the evaluation of your therapeutic drug monitoring data

Clinical laboratories performing routine LC-MS/MS are required to evaluate large amounts of data – and the more analytes an assay covers, the more data there is to consider.

**CSQUANT** simplifies and accelerates the evaluation of the data generated by Chromsystems assays – from batch generation through data mining to reporting.

For further information and a demonstration, please contact your local sales representative or visit: [chromsystems.com/csquant](http://chromsystems.com/csquant)



# MassTox<sup>®</sup> TDM Series A – 200 Analytes

## Parameter Menu

### Antiarrhythmic Drugs (92923)

Acebutolol  
Ajmaline  
Amiodarone  
Desethylamiodarone  
Aprindine  
Atenolol  
Bisoprolol  
Diltiazem  
Disopyramide  
Dronedaron  
Debuthyl-dronedaron  
Flecainide  
Flunarizine  
Gallopamil  
Lidocaine  
Metoprolol  
Mexiletine  
Propafenone  
Propranolol  
Quinidine  
Hydroquinidine  
Sotalol  
Tocainide  
Verapamil  
Norverapamil

### Antiepileptic Drugs All-in-One Method (92921/XT)

Brivaracetam  
Carbamazepine  
Carbamazepine-10,11-epoxide  
10-OH-Carbamazepine  
10-11-Dihydroxycarbamazepine  
Oxycarbamazepine  
Desmethylmesuximide  
Ethosuximide  
Felbamate  
Gabapentin  
Lacosamide  
Lamotrigine  
Levetiracetam  
Perampanel  
Phenobarbital  
Phenylethylmalonamide (PEMA)  
Phenytoin  
Pregabalin  
Primidone  
Retigabine  
Rufinamide  
Stiripentol  
Sultiame  
Tiagabine  
Theophylline  
Topiramate  
Valproic acid  
Vigabatrin  
Zonisamide

### Antidepressants 1/EXTENDED (92913/XT)

Citalopram  
N-Desmethylcitalopram  
Duloxetine  
Fluoxetine  
Desmethylfluoxetine  
Fluvoxamine  
Mirtazapine  
N-Desmethylmirtazapine  
Paroxetine  
Sertraline  
N-Desmethylsertraline  
Venlafaxine  
O-Desmethylvenlafaxine

### Antidepressants 2/ Psychostimulants/EXTENDED (92915/XT)

Atomoxetine  
Bupropion  
Erythro-Dihydrobupropion  
Hydroxybupropion  
Threo-Dihydrobupropion  
Clomethiazol  
Dosulepin  
N-Desmethyl-dosulepin  
Methylphenidate  
Mianserin  
Milnacipran  
Moclobemid  
Opipramol  
Reboxetine  
Ritalinic acid  
Tianeptin  
Tranlycypromin  
Trazodone  
Vilazodone  
Vortioxetin

### Anti-HIV Drugs (92924)

Amprenavir  
Atazanavir  
Darunavir  
Delavirdine  
Efavirenz  
Elvitegravir  
Etravirine  
Indinavir  
Lopinavir  
Maraviroc  
Nelfinavir  
Nelfinavir-M8  
Nevirapine  
Raltegravir  
Rilpivirine  
Ritonavir  
Saquinavir

### Antimycotic Drugs/EXTENDED (92922/XT)

5-Flucytosine  
Amphotericin B\*  
Anidulafungin  
Caspofungin  
Fluconazole  
Isavuconazole  
Itraconazole  
Hydroxyitraconazole  
Ketoconazole  
Micafungin  
Posaconazole  
Voriconazole

### Benzodiazepines 1 (92917)

Chlordiazepoxide  
Clobazam  
Nordlobazam  
Demoxepam  
Diazepam  
Nordiazepam  
Medazepam  
Midazolam  
1-OH-Midazolam  
Oxazepam  
Prazepam  
Temazepam  
Tetraepam

### Benzodiazepines 2 (92918)

Alprazolam  
Bromazepam  
Clonazepam  
Flunitrazepam  
Flurazepam  
Desalkylflurazepam  
Lorazepam  
Lormetazepam  
Nitrazepam  
Triazolam

### Mycophenolic Acid (92916)

Mycophenolic acid  
Mycophenolic acid glucuronide

### Neuroleptics 1/EXTENDED (92912/XT)

Aripiprazole  
Dehydroaripiprazole  
Clozapine  
N-Desmethylclozapine  
Haloperidol  
Olanzapine  
N-Desmethylolanzapine  
Quetiapine  
Norquetiapine  
Risperidone  
9-OH-Risperidone

### Neuroleptics 2/EXTENDED 2 (92914/XT2)

Amisulpride  
Benperidole  
Brexipiprazole  
Bromperidole  
Cariprazine  
Chlorpromazine  
Chlorprothixene  
Flupentixole  
Fluphenazine  
Guanfacin  
Loperidone  
Levomepromazine  
Loxapine  
Lurasidone  
Melperone  
Perazine  
Perphenazine  
Pimozide  
Pipamperone  
Promethazine  
Prothipendyl  
Sertindole  
Sulforidazine  
Sulpiride  
Thioridazine  
Ziprasidone  
Zotepine  
Zuclophenthixole

### Tricyclic Antidepressants TCA1 (92919)

Amitriptyline  
Desipramine  
Doxepin  
Nordoxepin  
Imipramine  
Nortriptyline

### Tricyclic Antidepressants TCA2 (92920)

Clomipramine  
Norclomipramine  
Maprotiline  
Normaprotiline  
Protriptyline  
Trimipramine  
Nortrimipramine

These products are not available in all countries. Please contact your local Chromsystems sales representative for availability in your region.

\* For Amphotericin B only qualitative information can be obtained, but data are not CE-IVD compliant.