

FAST TOXICOLOGICAL SCREENING KIT BY LC-MS/MS – Code SC9000

The kit for the toxicological-forensic analysis is a screening method to analyze hundreds of compounds in positive and negative mode, in plasma, blood or urine.

It is possible to determine the following molecules:

POSITIVE MODE:

Amitrole
17-alpha-Methyltestosterone
2-Amino-5-chlorobenzophenone
2-Amino-5-nitrobenzophenone
2-Hydroxyethylflurazepam
3,4-Methylenedioxyamphetamine
3,4-Methylenedioxyethylamphetamine
3,4-Methylenedioxymethamphetamine
3,5-Diiodotyrosine
4-Benzamidosalicylic acid
6-Mercaptourine
6-O-Monoacetylmorphine
7-Aminoclonazepam
7-Aminodesmethylflunitrazepam
7-Aminoflunitrazepam
7-Aminonitrazepam
9-Hydroxyrisperidone
cebutolol
Aceclidine
Aceclofenac
Acemetacin
Acepromazine
Aceprometazine
Acetiamin
Acetylamino nitroprophoxybenzene
Aciclovir
Actinoquinol
Adenine
Adrenalone
Ajmaline
Alachlor
Alclometasone-17,21-dipropionate
Alimemazine
Alizapride
Allopurinol
Almitrine
alpha-Hydroxyalprazolam
alpha-Hydroxytriazolam
Alprazolam
Alprenolol
Altretamine

Alypin
Amantadine
Ambroxol
Ambucetamide
Amezinium
Amidopyrin
Amidotrizoic Acid
Amiloride
Aminodantrolene
Aminogluthethimide
Aminophenazone
Aminopromazine
Aminorex
Amiodarone
Amiphenazole
Amisulpride
Amitriptylin
Amlodipine
Ammoidin
Amorolfine
Amoxicillin
Amphetamine
Amrinone
Antazoline
Apalcillin
Apomorphine
Apophedrin
Apraclonidin
Aprinidine
Atenolol
Atorvastatin
Atraton
Atrazine-desethyl
Atropine
Atropinmethylobromid
Azatadine
Azelastine
Azintamid
Aztreonam
Baclofen
Bambuterol

Bamifylline
Bamipin
Beclamide
Beclometasone dipropionate
Befunolol
Bendiocarb
Benfluorex
Benodanil
Benperidole
Benproperine
Bensultap
Bentiromide
Benzatropine
Benzocaine
Benzoctamine
Benzododecinium
Benzoyllecgonine
Benzthiazuron
Berberine
Betamethasone 21-phosphate
Betaxolol
Bevonium
Bezafibrate
Biperiden
Bisoprolol
Bornaprine
Brodifacoum
Bromacil
Bromazepam
Bromocriptine
Brompheniramine
Brotizolam
Bucetin
Bufexamac
Bumetanide
Bunazosin
Bunitrolol
Bupivacaine
Bupranolol
Buprenorphine
Buprofezin

Buspirone
Butaperazine
Butetamate
Butoxycaine
Cafaminol
Caffeine
Candesartan
Caproylresorcinol
Captopril
Carazolol
Carbamazepine
Carbamazepine 10,11-epoxide
Carbendazim
Carbinoxamine
Carbutamide
Carbuterol
Carteolol
Carvedilol
Celiprolol
Cerivastatin
Cetirizine
Chinine
Chlorazanyl
Chlorbenzoxamine
Chlorcyclizine
Chlordiazepoxide
Chloridazon
Chlormadinone Acetate
Chlormequat
Chlorphenethiazine
Chlorpheniramine
Chlorpromazine
Chlorpromazine Sulfoxide
Chlorprothixene
Cilastatin
Cilazapril
Cimetidine
Cinnarizine
Cinoxacin
Ciprofloxacin
Cisapride
Citalopram
Clarithromycin
Clemastine
Clenbuterol
Clobazam

Clobenzepam
Clobutinol
Clomethiazole
Clomipramine
Clonazepam
Clonidine
Clopendthixol
Clopidogrel
Cloprednol
Clozapine
Cocaine
Codeine
Coniine
Corticosterone
Cortisone
Cotinine
Coumatetralyl
Croconazole
Cromoglicic acid
Cyamemazine
Cyclicine
Cyclophosphamide
Cyclovalone
Cyproheptadine
Cytarabine
D3-Doxepin
D5-Diazepam
Dapiprazole
Deflazacort
Demeton-S-methylsulfone
Denaverine
Desalkylflurazepam
Desipramine
Desmedipham
Desmethylclobazam
Desmethylclomipramine
Dexamethasone
Dexamethasone 21-isonicotinate
Dexfenfluramine
Dextromethorphan
Dextropropoxyphene
Diaveridine
Diazepam
Dibutyl adipate
Diclofenac
Dicycloverine

Dienogest
Diethazine
Diethylcarbamazine
Difenoconazole
Difenoxuron
Diflucortolone
Dihydrocodeine
Dihydroergocristin
Dihydroergotamine
Dilazep
Diltiazem
Dimetindene
Dimetotiazine
Dimetridazole
Dioxethedrin
Diphenamid
Diphenhydramine
Diponium
Diprophylline
Dipyridamole
Disopyramide
Dixyrazine
Dobutamine
Dorzolamide
Doxapram
Doxepin
Doxylamine
Drofenine
Dummy
Ecgoninemethylester
EDDP
Embutramide
Enalapril
Enoximone
Ephedrine
Eprosartan
Esculin
Esmolol
Estazolam
Ethenzamide
Etofenamate
Etomidate
Etoposide
Famotidine
Fedrilate
Felbamate

Felodipine
Fenarimol
Fendiline
Fenetylline
Fenfluramine
Fenpipramide
Fenpiprane
Fenproporex
Fentanyl
Fenticonazole
Fexofenadine
Flecainide
Flocoumafen
Floctafenine
Fluanisone
Fluconazole
Flumazenil
Flunarizine
Flunitrazepam
Fluoxetine
Flupentixol
Fluphenazine
Flupirtine
Flurazepam
Flurochloridone
Fluspirilen
Fluticasone Propionate
Fluvastadine
Fluvoxamine
Fuberidazole
Furalaxyl
Gabapentin
Galantamine
Gallopamil
Gemcitabine
Glibenclamide
Glibornuride
Gliclazide
Glimepiride
Glipizide
Gliquidone
Griseofulvin
Guaifenesin
Guanabenz
Guanethidine
Guanfacine

Guanoxan
Haloperidol
Haloxypol ethoxyethyl ester
Heptaminol
Heroin
Hexazinone
Hexobendine
Histamine
Histapyrrodine
Homatropine
Hordeine
Hydrocodone
Hydrocortisone
Hydrocortisone 21-acetate
Hydromorphone
Hydroxyzine
Hymecromone
Imipramine
Indanazoline
Indapamine
Indinavir
Indoprofen
Indoramin
Iopodic acid
Ipratropium
Iprazochrome
Irbesartan
Isoaminile
Isoconazole
Isoprenaline
Isoproturon
Isothipendyl
Isoxicam
Isoxsuprine
Kavain
Ketamine
Ketoprofen
Ketorolac
Ketotifen
Lamotrigine
Lercanidipine
Levocabastine
Levodopa
LevomEPROMAZINE
Levopropylhexedrin
Lidocaine

Lisinopril
Lonazolac
Loperamide
Loratadine
Lorazepam
Lormetazepam
Losartan
Loxapine
Lysergide
Mafenide
Maprotiline
MBDB
Mebeverine
Meclizine
Meclofenamic acid
Meclozamine
Meclozine
Medazepam
Mefenamic acid
Mefenorex
Mefexamide
Mefloquine
Melatonin
Melitracen
Meloxicam
Melperone
Melphalan
Mepindolol
Mepivacaine
Meptazinol
Mequitazine
Mescaline
Mesoridazine
Mesuximide
Metaclazepam
Metamfepramone
Metamitron
Metamphetamine
Metazachlor
Metenolone acetate
Metformin
Methabenzthiazuron
Methadone
Methaphenilene
Methapyrilene
Methaqualon

Methazolamide
Methfuroxam
Methocarbamol
Methoprotryne
Methotrexate
Methylephedrine
Methylphenidate
Methylscopolamine
Methylthiouracil
Metipranolol
Metixene
Metoprolol
Metronidazole
Metsulfuron-methyl
Metyrapone
Mexiletine
Mianserin
Miconazole
Midazolam
Midodrine
Milrinone
Minoxidil
Mirtazapine
Mizolastine
Moclobemide
Modafinil
Molsidomine
Monocrotophos
Monolinuron
Moperone
Morphine
Morphine-3-β-D-glucuronide
Moxaverine
Moxislyte
Moxonidine
Nabumetone
Nadolol
Naftidrofuryl
Naftifine
Nalidixic acid
Nalorphine
Naloxone
Naltrexone
Nandrolone
Naphazoline
N-Despropylpropafenone

Nebivolol
Nefopam
Nicardipine
Nicotinamide
Nicotine
Nifedipine
Nifenazone
Niflumic acid
Nimodipine
Nimorazole
Nisoldipine
N-Isopropylsalicylamide
Nitrazepam
Nitrendipine
Nizatidine
N-Methylephedrine
Nomifensine
Norbuprenorphine
Nordiazepam
Nordiazepam N-ethyl
Norephedrine
Norethisterone
Norethisterone acetate
Norfefrine
Norfentanyl
Norfloxacin
Normorphine
Nortriptyline
Noscapine
Nuarimol
Obidoxime
Ofloxacin
Olanzapine
Ondansetron
Opipramol
Orciprenaline
Ornidazole
Orphenadrine
Oxadixyl
Oxamyl
Oxatomide
Oxazepam
Oxcarbazepine
Oxeladin
Oxetacaine
Oxiconazole

Oxilofrine
Oxitriptan
Oxitropium
Oxomemazine
Oxprenolol
Oxybuprocaine
Oxybutynin
Oxycodone
Oxyfedrine
Oxymetazoline
Oxymorphon
Oxypertine
Papaverine
Paracetamol
Paraoxon
Paroxetine
Penfluridol
Pentamidine
Pentoxyverine
Perazine
Periciazine
Perindopril
Perphenazine
Pethidine
Phenacetin
Phenazone
Phenazopyridine
Phencyclidine
Phenelzine
Pheniramine
Phenprocoumon
Phenylephrine
Phenyltoloxamine
Phenytoin
Pholedrine
Physostigmine
Pilocarpine
Pindolol
Pioglitazone
Pipamperone
Pirbuterol
Pirenzepine
Piretanide
Piritramide
Piroxicam
Pizotifen

Practolol
Praijmalium
Pramipexole
Prazepam
Prazosin
Prednisolone
Prednisone
Prilocaine
Primaquine
Primidone
Procainamide
Prochlorperazine
Procyclidine
Progesterone
Promazine
Promethazin
Prometryn
Propafenone
Propiconazole
Propionylpromazine
Propipocaine
Propiverine
Propranolol
Propyphenazone
Prothiopyndyl
Protriptyline
Pseudoephedrine
Psilocin
Pyranocoumarin
Pyribenzamine
Pyridoxine
Pyrimethamine
Pyritinol
Pyrvinium
Quetiapine
Quinapril
Quinine
Ramipril
Ranitidine
Raubasine
Reboxetine
Remoxipride
Repaglinide
Reproterol
Reserpine
Riluzole

Risperidone
Ritodrine
Rizatriptan
Ropinirole
Ropivacaine
Rosiglitazon
Salbutamol
Salicylamide
Scopolamine
Serotonin
Sertindole
Sertraline
Sildenafil
Simazine
Sotalol
Spirapril
Stanozolol
Sulfabenzamide
Sulfadiazine
Sulfadoxine
Sulfaethidole
Sulfaguanidine
Sulfamethizole
Sulfamethoxazole
Sulfapyridine
Sulfaquinoxaline
Sulindac
Sulpiride
Sultiam
Sumatriptan
Suxibuzone
Tadalafil
Talinolol
Tamoxifen
Telmisartan
Temazepam
Tenocixam
Terazosine
Terbinafine
Terbutaline
Terbutryn
Terconazole
Terfenadine
Tertalolol
Tetracaine
Tetrazepam

Tetroxoprim
Tetryzoline
THC
THC-COOH
THC-OH
Thebacon
Theobromine
Theophylline
Thiabendazole
Thiamazole
Thiamine
Thiopropazate
Thiopropazine
Thioridazine
Thiram
Tiagabine
Tiapride
Ticlopidine
Tiemonium
Tilidine
Timolol
Tinidazole
Tizanidine
Tocainide
Tolazoline
Tolbutamide
Toliprolol
Tolnaftate
Tolpropamine
Tolycaine
Topotecan
Torasemide
Tramadol
Tranexamic acid
Trazodone
Triadimenol
Triallate
Triamterene
Triazolam
Trifluoperazine
Trifluoperidol
Triflupromazine
Trimethobenzamide
Trimethoprim
Trimipramine
Tripelennamine

Tripolidine
Tritoqualine
Tromantadine
Tropisetron
Trospium
Tryptamine
Tulobuterol
Urapidil

Valdecoxib
Valsartan
Vardenafil
Venlafaxine
Verapamil
Vincamine
Warfarin
Xantinol

Xipamide
Xylometazoline
Yohimbine
Zolpidem
Zopiclone
Zuclopenthixol

NEGATIVE MODE:

2-Amino-5-nitrobenzophenone
4-Benzamidosalicylic acid
5-(p-Methylphenyl)-phenylhydantoin
5-Aminosalicylic acid
6-Mercaptourine
Acetazolamide
Acetylsalicylic Acid
Adenine
Adenosine
Adrenalone
Alprostadil
Amobarbital
Amoxicillin
Atorvastatin

Azelaic Acid
Aztreonam
Benserazid
Benzthiazide
Bezafibrate
Brallobarbitol
Carbenoxolone
Chlorothiazide
Cimetidine
Cinchonine
Cortisone
Dinoprost
Epinephrine
Ethyl glucuronide
Ethyl glucuronide-D5

Ethyl sulfate
Ethyl sulfate-D5
Furosemid
Hydrochlorothiazide
Morphin-3βD-glucuronide-D3
Pentobarbital
Phenobarbital
Propallylonal
THC-COOH
THC-OH
Triamcinolone

FAST TOXICOLOGICAL SCREENING KIT – Code SC9000

TECHNICAL FEATURES

Principle of the Method:

After optimizing the retention times of the analytes by means of the injection of the Mix Standard in LC-MS/MS, it will be possible to inject the diluted urine or the deproteinized plasma / blood to determine intoxication by unknown molecules.

Components of the kit (200 tests):

All reagents are ready to use and stable 3 years at 2–8 °C.

Reagent A – Deproteinization Solution with internal Standard, **1 x 30 ml**

Reagent B – Reconstitution Solution, **1 x 9 ml**

Reagent C – Hydrolysis Solution, **1 x 1 ml**

Reagent D – Diluting Solution with con Internal Standard, **1 x 50 ml**

Reagent E – Stabilizing Solution, **1 x 10 ml**

Reagent F – Standard mix Solution, **1 x 1 ml**

Reagent M1 – Mobile Phase M1, **8 x 500 ml**

Reagent M2 – Mobile Phase M2, **8 x 500 ml**

Minimum Instrumental equipment:

Instrument API 3200 QTRAP[®]
Instrument API 4000 - 4500 QTRAP[®]
Instrument API 5500 QTRAP[®]
Operational Computer
Autosampler

Optional equipment:

Blood Collection Procedure:

Tube with con anticoagulant EDTA
Stable for about 4 weeks at 2 – 8 °C or 4 months at –20°C.

Urine Collection Procedure:

Take 10 ml of urine
Stable for about 3 months at –20 °C
Centrifuge the urine before analysis.



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This product meets all the requirements of Directive 98/79 / EC on in vitro diagnostic medical devices (IVD). The EC declaration of conformity is available on request.

N° 005	Fast Toxicological Screening Kit	10/2024
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PREANALYTICAL PHASE

PREPARATION OF STANDARD MIX FOR SYSTEM SET UP:

- 1) dilute 1 at 10 in Methanol the **Reagent F – Standard mix Solution**.
- 2) Prepare the following dilutions using the **Reagent M1 – Mobile Phase M1**.
 - For API 3200 QTRAP[®] systems: add 100 ul of solution diluted at step 1 and add 900 µL of **Reagent M1 – Mobile Phase M1**
 - For API 4000 - 4500 QTRAP[®] systems: add 10 ul of solution diluted at step 1 and add 90 ul of Methanol and 900 µL of **Reagent M1 – Mobile Phase M1**
 - API 5500 QTRAP[®] systems: add 2 ul of solution diluted at step 1 and add 98 ul of Methanol and 900 µL of **Reagent M1 – Mobile Phase M1**

INJECTION :

- Inject 10 - 30 ul

This standard should be injected at the beginning of each session as a System Suitability Test to check the instrumental and chromatographic performance.

ANALYTICAL PROCEDURE

Enzyme reconstitution

Reagent C – Enzyme of Hydrolysis it should be reconstituted with 9,0 ml of **Reagent B – Reconstitution Solution**.

After reconstitution, the enzyme is stable 1 years at 2–8 °C.

PREPARATION OF URINE SAMPLES

STEP 1 : Sample Hydrolysis

In eppendorf dispense in sequence:

- 500 ul of SAMPLES + 100 ul of Enzyme previously reconstituted.

STEP 2 : Incubate at 60 °C for 3 hours.

Cooling

STEP 3 : Take 100 µl of hydrolyzed and add 500 µl of **Reagent D – Diluting + Internal Std**

INJECTION :

- Injection 30 ul

PREPARATION OF PLASMA/BLOOD SAMPLES

STEP 1 : In eppendorf dispense in sequence:

- 100 ul of SAMPLES + 300 ul of **Reagent A – Deproteinization Solution with Internal Standard**

STEP 2 : centrifuge at 10.000 rpm for 10 minutes

STEP 3 : dilute 100 ul of supernatant with 100 ul of **Reagent E – Stabilization Solution**

INJECTION :

- Inject 30 ul

FAST TOXICOLOGICAL SCREENING KIT – Warnings

(THIS KIT HAS BEEN DEVELOPED FOR SCIEX LC/MS SYSTEMS Q-TRAP CONFIGURATION)

INSTRUMENTAL CONDITIONS:

Cromatographic Gradient

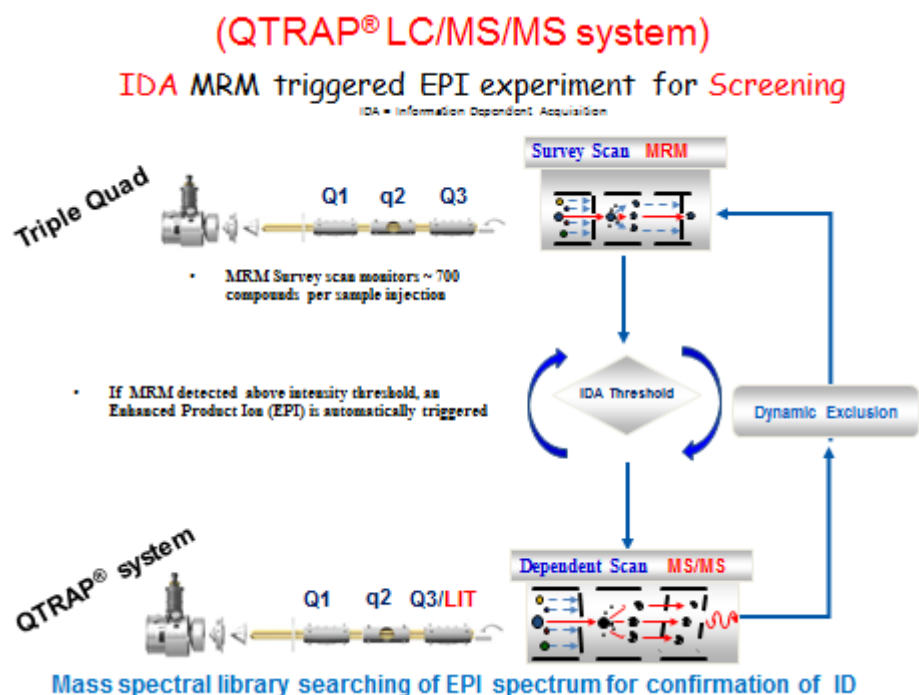
Gradient Profile Time (min)	Flow Rate (µL/min)	A (%)	B (%)
0.00	500	90	10
10.00	1000	10	90
15.00	1000	10	90
15.50	500	90	10
18.00	500	90	10

Flow rate: 0.5 mL/min

Column oven temperature: 40°C

Separation Column

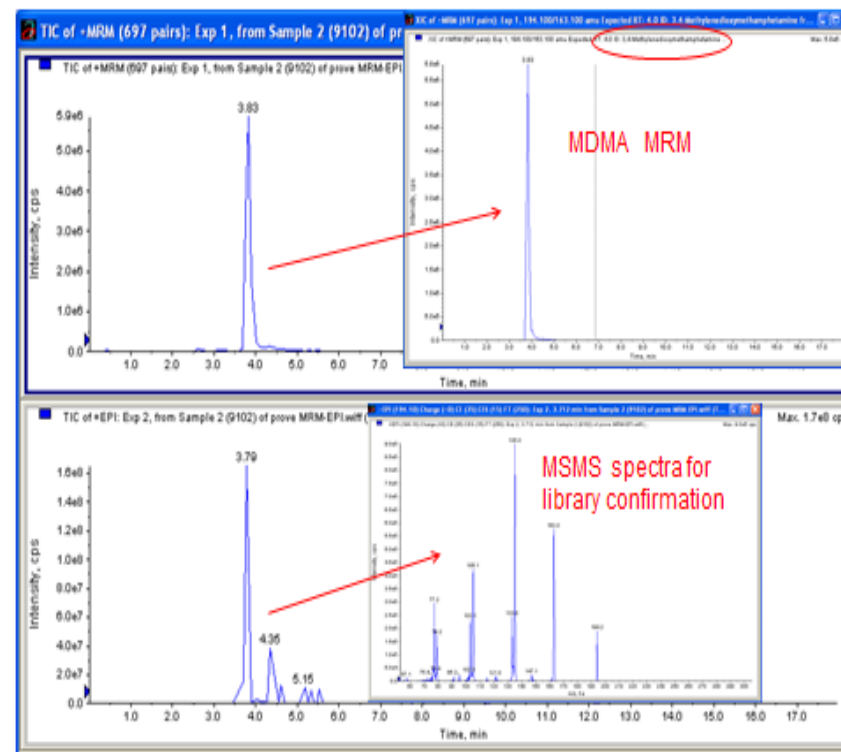
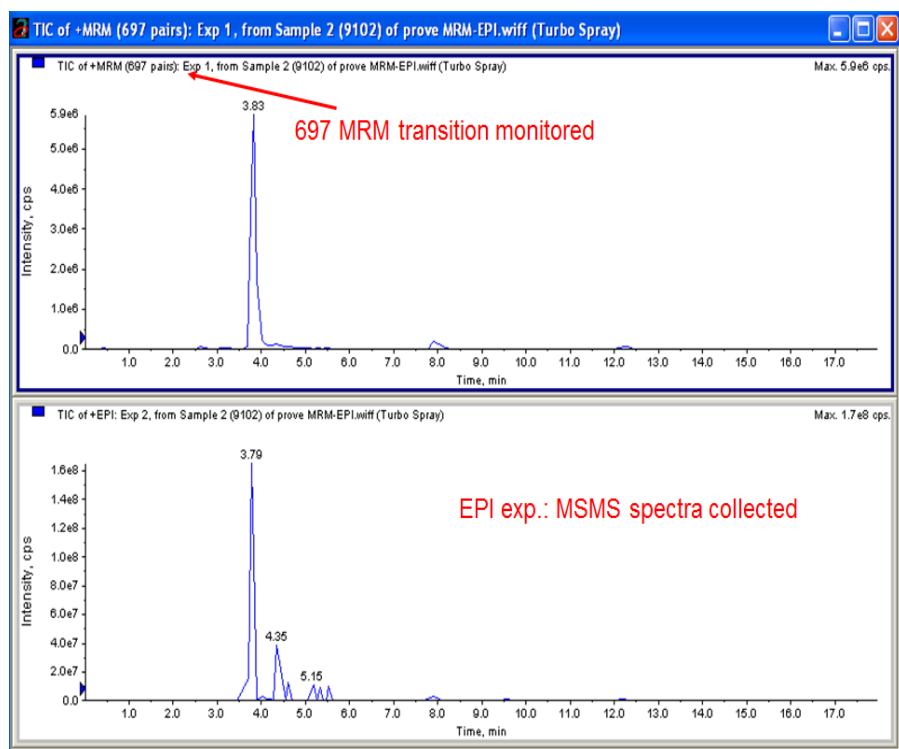
Drug Screen and Quant Analytical Column, 5 µm 60 Å, PFP Propyl Column, 50 x 2.1 mm (P/N 9169552)



CODE	ACCESSORIES DESCRIPTION	PACKAGING
SRE9169552	Drug Screen and Quant Analytical Column, 5 µm 60 Å, PFP Propyl Column, 50 x 2.1 mm	1 Pc
SK9001	PEEK Tubing O.D. x I.D. 1/16 in. x 0.005 in., red PEEK Tubing O.D. x I.D. 1/16 in. x 0.010 in., blue Peek fitting One-piece fingertight F130-X	1 Pc
S90199511	Prefilters Javelin	1 x 10 Pcs

FAST TOXICOLOGICAL SCREENING KIT

(Reference Chromatograms/Spectra)



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