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MEPS™ Online – The SPE solution for your CTC platform

This solution pack provides all the hardware, software and support needed to add online SPE capability to your CTC platform, using the MEPS™ SPE system.



- Get SPE online fast; includes macros, object manager and holders for easy installation and setup
- Contains over 60 applications in key areas of Pharma, DAU and Environmental

PATENT PENDING



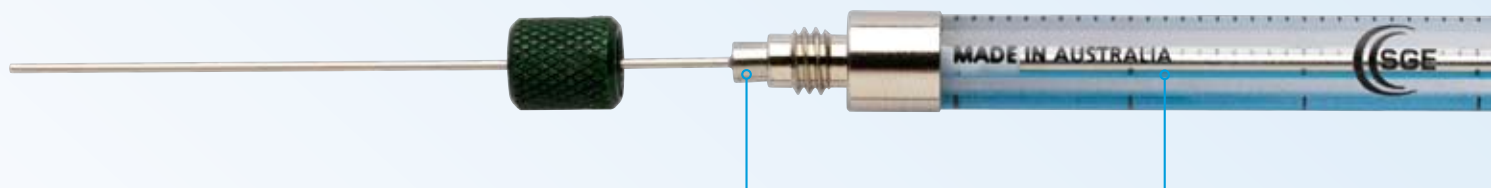
SciSEP Accurate Science
...CTC ANALYTICS



www.sge.com

AUSTRALIA & PACIFIC REGION CHINA EUROPE INDIA JAPAN MIDDLE EAST USA

The MEPS™ SPE Solution



Exchangeable MEPS™ SPE BIN

- Available in C18, C8, C2, Silica and a mixed bed of C8/SCX

MEPS™ Syringe

- Designed to integrate with CTC
- Available in 100 μ L and 250 μ L

MEPS™ (Micro Extraction by Packed Sorbent) is a new development in the fields of sample preparation and sample handling. MEPS™ is the miniaturization of conventional SPE packed bed devices from milliliter bed volumes to microliter volumes.

MEPS™ performs the same functions as SPE – the removal of interfering matrix components

and the selective isolation and concentration of analytes.

Sample Size and Sensitivity

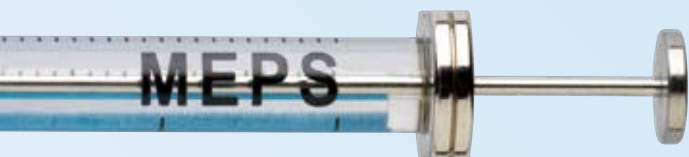
Sample volumes may be as little as 10 μ L, or by taking multiple aliquots of 100 μ L or 250 μ L, samples of 1 mL or larger may be concentrated.

What is in the MEPS™ Online kit?

- 1x 100 μ L SGE MEPS™ syringe.
- 1x 250 μ L SGE MEPS™ syringe.
- 2 packages of MEPS™ Development BIN's – containing one each of C18, C8, C2, Silica and a mixed bed of C8/SCX.
- CTC MEPS™ encoded syringe holder for 100 μ L MEPS™ syringe.
- CTC MEPS™ encoded syringe holder for 250 μ L MEPS™ syringe.
- CTC syringe button mount.
- MEPS™ for CTC analytics support guides:
 - Methods and applications.
 - MEPS™ macros for the CTC.
 - MEPS™ instruction videos.
- Over 65 pre-set methods spanning Natural Products, Environmental, Food & Beverage and Pharmaceuticals to enable rapid method development, in a variety of matrices; plasma, serum, whole blood, urine, aqueous.



Note: Existing CTC platforms will require an additional wash station available from your CTC distributor.



Sorbent Life

Typical BIN life for extraction of whole plasma sample is conservatively about 40 to 100 samples. This significantly increases for cleaner samples.

Carry Over

The small quantity of phase in the MEPS™ BIN can be easily and effectively washed between samples to reduce the possibility of carryover.

Flexible and easy to use

The dimensions of the sorbent bed ensure that the performance remains identical to conventional SPE devices when used for extraction of similar samples. MEPS™ BINS can be used for sample volumes as small as 3.6 µL making them particularly well suited to on-line use with LC-MS analysis of volume limited samples.

MEPS™ Online Kit Application Index

ALKALOIDS

- A01 3,4-Diaminopyridine from Urine (Lambert-Eaton)
- A02 Alkylbenzyl Dimethylammonium Chlorides from Plasma
- A03 Amino Acids from Urine
- A04 Basic Nucleosides from Aqueous Solution
- A05 Bio-flavonoids from Red Wine
- A06 Casuarine in Plant Extract
- A07 Catecholamines from Urine
- A08 Cyclodextrins from Plasma
- A09 Cyclodextrins from Urine
- A10 Dipterex in Serum
- A11 Diterpene Glycosides from Tea Extract
- A12 Fatty Acids from Serum
- A13 Homovanillic Acid from Plasma
- A14 Isoflavones from Plant Extract
- A15 Mixed Aromatic Amines from Urine and Plasma
- A16 Nicotine and Cotinine from Plasma
- A17 Nucleosides from Aqueous Solution
- A18 Nucleosides from Plasma
- A19 Nucleosides from Urine
- A20 PEG 400 in Serum
- A21 Persistent Organic Pollutants PAH, PCB and Pesticides in Blood
- A22 Persistent Organic Pollutants PAH, PCB and Pesticides in Plasma
- A23 Persistent Organic Pollutants PAH, PCB and Pesticides in Serum
- A24 Pesticides and PCB in Fats
- A25 Phenylalanine from Plasma
- A26 Prostaglandins from Urine
- A27 Prostaglandins from Whole Blood
- A28 Salsoline from Plasma
- A29 Steroid Acids from Serum
- A30 Tryptophan from Plasma
- A31 Vanillylmandelic Acid from Plasma
- A32 Xanthines (Caffeine) from Serum
- A33 Xanthines (Theophylline) from Serum

ENVIRONMENTAL

- E01 Carbamate Insecticide (Aldicarb) from Water
- E02 PAH and PCB in Contaminated Soil
- E03 Phenols in water
- E04 Phthalate Esters in Water
- E05 S-triazine Herbicide (Atrazine) in Soil

FOOD & BEVERAGE

- F01 Aflatoxin B2 and M2 Metabolite Trace Analysis in Milk
- F02 Chloroacetanilide Herbicides (Acetochlor and Metolachlor) in Contaminated Water
- F03 F-2 Mycotoxin Trace Analysis in Cereal
- F04 Fatty Acid Methyl Esters (Long Chain) in Fermentation medium
- F05 Omega 6 Fatty Acid in Malt Lipid Fractions
- F06 Pigment Anthocyanidins in Wine
- F07 S-triazine Herbicide (Atrazine) in Cereal
- F08 Sulfonamide Trace Analysis in Meat

PHARMACEUTICALS

- P01 Acetazolamide and Bumetanide in Urine
- P02 Acetazolamide in plasma
- P03 Amiodarone, Fendiline and Procainamide in Serum
- P04 Amphetamine in Plasma
- P05 Analgesics in Serum; Paracetamol and Tramadol
- P06 Anesthetics in Serum; Benzocaine, Mepivacaine, Procaine and Lidocaine
- P07 Antidepressants (Tricyclics) in Blood
- P08 Antidepressants (Tricyclics) in Urine
- P09 Atenolol in Plasma
- P10 Barbiturates in Serum; Barbitol, Amobarbital, Phenobarbital, Secobarbital
- P11 Barbiturates in Urine; Barbitol, Amobarbital, Phenobarbital, Secobarbital
- P12 Carbamazepine, Phenobarbital and Primidone in Serum
- P13 Chloramphenicol in Eye Drops
- P14 Cimetidine in Plasma
- P15 Cyclosporin in Blood
- P16 Erythromycin and Clarithromycin in Urine
- P17 Minor Tranquilizers (Benzodiazepines) in Urine or Serum
- P18 Minor Tranquilizers (Diazepam and Lorazepam) in Hair
- P19 Opiate Analgesics in Blood; Morphine and Codeine
- P20 Propranolol in Serum
- P21 Stobadin from Serum
- P22 Vitamin A, D and E in Supplements
- P23 Vitamin D3 and Metabolites in Serum

Contact and ordering information

The MEPS™ Online kit is the product of a collaboration between SGE Analytical Science who developed the MEPS™ product, CTC Analytics who provide the platform for automation of the MEPS™ concept and SciSEP who develop and support the MEPS™ application on the CTC platform.

The MEPS™ Online kit can be ordered through SciSep (UK only), or any authorized CTC distributor.

MEPS™ Online Kit

P/N	Description	# per pack
492901	GC-PAL kit	1
492902	LC-PAL kit	1

MEPS™ Online Replacement Syringes

All syringes may be used manually as well as with the CTC autosampler

P/N	Description	# per pack
005291	100 µL Removable needle MEPS™ syringe for CTC Analytics systems	1
031826	Replacement plunger assembly for 005291	1
006292	250 µL Removable needle MEPS™ syringe for CTC Analytics systems	1
031831	Replacement plunger assembly for 006292	1

MEPS™ Online Replacement BINS

FOR GC APPLICATIONS, needle is 23 gauge, 0.63 mm OD, Cone point style

Phase	For use with 100 µL MEPS™ Syringe, P/N	For use with 250 µL MEPS™ Syringe, P/N	# per pack
C18	2900101	2900301	5
Silica	2900102	2900302	5
C8+SCX	2900103	2900303	5
C2	2900104	2900304	5
C8	2900106	2900306	5
MEPS™ Development kit for CTC Analytics systems (contains 1 each of C18, C8, C2, SILICA and C8+SCX)	2900105	2900305	5

FOR LC APPLICATIONS, needle is 22 gauge, 0.72 mm OD

Phase	For use with 100 µL MEPS™ Syringe, P/N	For use with 250 µL MEPS™ Syringe, P/N	# per pack
C18	2900401	2900501	5
Silica	2900402	2900502	5
C8+SCX	2900403	2900503	5
C2	2900404	2900504	5
C8	2900406	2900506	5
SCX	2900408	2900508	5
SAX	2900409	2900509	5
MEPS™ Development kit for CTC Analytics systems (contains 1 each of C18, C8, C2, SILICA and C8+SCX)	2900405	2900505	5

Base material is silica with mean particle size of 45 µm and pore size of 60 Å.

Distributor Stamp

AU & Pacific

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Japan

Tel: +81 45 222 2885

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