

## HyperSep MEPS Products

Online SPE for GC and LC sample preparation – extraction to injection in a single process

- Save hours in sample preparation
- Significantly reduce the time to prepare and inject samples from hours to minutes
- Eliminate all extra steps between sample preparation and sample injection (fully compatible with direct injection onto LC or GC)
- Reduce buffer and solvent volume from milliliters to microliters
- Reduce the sample volume needed to as little as 3.6µL
- Compatible with CTC and eVol platforms for automation

MEPS (Micro Extraction by Packed Sorbent) is the miniaturization of conventional SPE packed bed devices from milliliter bed volumes to microliter volumes and is available in a variety of phase chemistries. It offers advantages in rapid and effective SPE method development.

To learn more visit [www.thermoscientific.com/chromatography](http://www.thermoscientific.com/chromatography) and download the brochure.



Discover eVol XR – the world's first analytical syringe

>> PAGE 1-062



## HyperSep MEPS Syringe Components

### MEPS Syringes and Components

Description	Cat. No.	Quantity
<b>Thermo Scientific, CTC Analytics, HTA and Varian 8400 systems</b>		
100µL removable needle MEPS syringe	<b>60308-101</b>	1 Each
Replacement plunger assembly for 100µL MEPS syringe	<b>60308-102</b>	1 Each
250µL removable needle MEPS syringe	<b>60308-103</b>	1 Each
Replacement plunger assembly for 250µL MEPS syringe	<b>60308-104</b>	1 Each
<b>CTC Analytics Only</b>		
250µL removable needle MEPS syringe	<b>60308-105</b>	1 Each
Replacement plunger assembly for 250µL CTC-compatible syringe	<b>60308-106</b>	1 Each

## HyperSep MEPS for GC Applications: Thermo Scientific, CTC Analytics, HTA and Varian 8400 Systems

- For use with 100 and 250µL MEPS syringes

### MEPS For GC: Thermo Scientific, CTC Analytics, HTA and Varian 8400 Systems

Description	Cat. No.	Quantity
HyperSep Retain PEP MEPS	<b>60308-201</b>	5 Pack
HyperSep Retain CX MEPS	<b>60308-202</b>	5 Pack
HyperSep Retain-AX MEPS	<b>60308-203</b>	5 Pack
HyperSep Hypercarb MEPS	<b>60308-204</b>	5 Pack
HyperSep Verify CX MEPS	<b>60308-205</b>	5 Pack
HyperSep Verify AX MEPS	<b>60308-206</b>	5 Pack
HyperSep C18 MEPS	<b>60308-207</b>	5 Pack
HyperSep Silica MEPS	<b>60308-208</b>	5 Pack
HyperSep MEPS Development Kit for GC Applications	<b>60308-209</b>	5 Pack

HyperSep MEPS Development Kit for GC applications contains 1 each of Retain PEP, Retain CX, Retain AX, Hypercarb and C18

## HyperSep MEPS for GC Applications: CTC Analytics Using 250µL Syringes

### MEPS For GC: CTC Analytics Using 250µL Syringes

Description	Cat. No.	Quantity
HyperSep Retain PEP MEPS	<b>60308-301</b>	5 Pack
HyperSep Retain CX MEPS	<b>60308-302</b>	5 Pack
HyperSep Retain AX MEPS	<b>60308-303</b>	5 Pack
HyperSep Hypercarb MEPS	<b>60308-304</b>	5 Pack
HyperSep Verify CX MEPS	<b>60308-305</b>	5 Pack
HyperSep Verify AX MEPS	<b>60308-306</b>	5 Pack
HyperSep C18 MEPS	<b>60308-307</b>	5 Pack
HyperSep Silica MEPS	<b>60308-308</b>	5 Pack
HyperSep MEPS Development Kit for GC Applications	<b>60308-309</b>	5 Pack

HyperSep MEPS Development Kit for GC applications contains 1 each of Retain PEP, Retain CX, Retain AX, Hypercarb and C18

## HyperSep MEPS For LC Applications: Thermo Scientific, CTC Analytics, HTA and Varian 8400 Systems

- For use with 100 and 250 $\mu$ L MEPS syringes

### MEPS For LC: Thermo Scientific, CTC Analytics, HTA and Varian 8400 Systems

Description	Cat. No.	Quantity
HyperSep Retain PEP MEPS	<b>60308-401</b>	5 Pack
HyperSep Retain CX MEPS	<b>60308-402</b>	5 Pack
HyperSep Retain AX MEPS	<b>60308-403</b>	5 Pack
HyperSep Hypercarb MEPS	<b>60308-404</b>	5 Pack
HyperSep Verify CX MEPS	<b>60308-405</b>	5 Pack
HyperSep Verify AX MEPS	<b>60308-406</b>	5 Pack
HyperSep C18 MEPS	<b>60308-407</b>	5 Pack
HyperSep Silica MEPS	<b>60308-408</b>	5 Pack
HyperSep MEPS Development Kit for LC applications	<b>60308-409</b>	5 Pack

HyperSep MEPS Development Kit for LC applications contains 1 each of Retain PEP, Retain CX, Retain AX, Hypercarb and C18.

## HyperSep MEPS For LC Applications: CTC Analytics Using 250 $\mu$ L Syringes

- For use with 250 $\mu$ L MEPS syringes

### MEPS For LC Applications: CTC Analytics Using 250 $\mu$ L Syringes

Description	Cat. No.	Quantity
HyperSep Retain PEP MEPS	<b>60308-501</b>	5 Pack
HyperSep Retain CX MEPS	<b>60308-502</b>	5 Pack
HyperSep Retain AX MEPS	<b>60308-503</b>	5 Pack
HyperSep Hypercarb MEPS	<b>60308-504</b>	5 Pack
HyperSep Verify CX MEPS	<b>60308-505</b>	5 Pack
HyperSep Verify AX MEPS	<b>60308-506</b>	5 Pack
HyperSep C18 MEPS	<b>60308-507</b>	5 Pack
HyperSep Silica MEPS	<b>60308-508</b>	5 Pack
HyperSep MEPS Development Kit for LC applications	<b>60308-509</b>	5 Pack

HyperSep MEPS Development Kit for LC applications contains 1 each of Retain PEP, Retain CX, Retain AX, Hypercarb and C18.

## eVol XR Dispensing System

Allows precise and accurate, operator-independent dispensing for better deployment of laboratory staff

- Can be calibrated easily by user to ensure validity of results
- Intuitive interface with touch wheel and full-color screen
- Complies to GLP and GMP protocols
- Improves confidence in reported results
- Unifies two precision devices, a digitally controlled electronic drive and an XCHANGE™ analytical syringe
- Integrated XCHANGE coupling allows syringes to be quickly and easily changed
- XCHANGE syringes offer exceptional versatility and functionality
- Addition of MEPS to XCHANGE syringe offers automated sample preparation by SPE in a handheld system



### eVol XR Dispensing System

Description	Cat. No.	Quantity
Sample Dispensing System	<b>66002-020</b>	1 Each
eVol™ XCHANGE syringe 5µL	<b>66002-021</b>	1 Each
eVol XCHANGE syringe 50µL	<b>66002-022</b>	1 Each
eVol XCHANGE syringe 100µL	<b>66002-038</b>	1 Each
eVol XCHANGE syringe 500µL	<b>66002-023</b>	1 Each
eVol XCHANGE syringe 1000µL	<b>66002-039</b>	1 Each
Sample Dispensing System Kit*	<b>66002-024</b>	1 Each
eVol Stand	<b>66002-025</b>	1 Each
Charger for eVol System	<b>66002-026</b>	1 Each
Charging Stand for eVol System	<b>66002-027</b>	1 Each
Replacement Battery for eVol System	<b>66002-028</b>	1 Each
Replacement Plunger for 5µL eVol Syringe	<b>66002-029</b>	1 Each
Replacement Plunger for 50µL eVol Syringe	<b>66002-030</b>	1 Each
Replacement Plunger for 100µL eVol Syringe	<b>66002-040</b>	1 Each
Replacement Plunger for 500µL eVol Syringe	<b>66002-031</b>	1 Each
Replacement Plunger for 1000µL eVol Syringe	<b>66002-041</b>	1 Each

\* Sample Dispensing Kit contains 1 eVol XR unit, 1x5uL, 1x50uL and 1x500uL syringe.

### Applications:

- Routine dispensing of volatile solvents, hazardous, corrosive or viscous chemicals



# HyperSep Microscale Solid Phase Extraction Tips

Revolutionary micropipette tip for sample preparation

- Faster sample preparation with minimal sample loss
- Patented micropipette tip in which the chromatographic material is directly attached to its inner surface
- No contamination from the supporting matrix
- Separation in volumes as low as 100nL



## HyperSep Tip Microscale Solid Phase Extraction Tips

Material	Cat. No.	Quantity
<b>1-10<math>\mu</math>L Capacity</b>		
Thermo Scientific™ BioBasic™ 18	<b>60109-201</b>	96 Pack
BioBasic 8	<b>60109-202</b>	96 Pack
BioBasic 4	<b>60109-203</b>	96 Pack
Hypercarb	<b>60109-204</b>	96 Pack
Hypercarb and C18 (mix mode)	<b>60109-205</b>	96 Pack
HILIC	<b>60109-206</b>	96 Pack
Trypsin	<b>60109-207</b>	96 Pack
Titanium Dioxide	<b>60109-208</b>	96 Pack
Zirconium Dioxide	<b>60109-217</b>	96 Pack
<b>10-200<math>\mu</math>L Capacity</b>		
BioBasic 18	<b>60109-209</b>	96 Pack
BioBasic 8	<b>60109-210</b>	96 Pack
BioBasic 4	<b>60109-211</b>	96 Pack
Hypercarb	<b>60109-212</b>	96 Pack
Hypercarb and C18 (Mix Mode)	<b>60109-213</b>	96 Pack
HILIC	<b>60109-214</b>	96 Pack
Trypsin	<b>60109-215</b>	96 Pack
Titanium Dioxide	<b>60109-216</b>	96 Pack
Zirconium Dioxide	<b>60109-218</b>	96 Pack

### Applications:

- Mass spectrometry
- Desalting
- Protein purification
- MALDI
- Electrophoresis
- HPCE
- HPLC
- CEC

## HyperSep SpinTip Microscale Solid Phase Extraction Tips

Revolutionary micropipette tip for sample preparation

- Pipette tips with a 1 to 2µm wide slit at the bottom that permits the liquid to pass through but retains the chromatographic material (20 to 30µm)
- Faster sample preparation with minimal sample loss
- No contamination from the supporting matrix
- Separation in volumes as low as 100nL



### HyperSep SpinTip Microscale Solid Phase Extraction Tips

Material	Cat. No.	Quantity
<b>1-10µL Capacity</b>		
C18	<b>60109-401</b>	96 Pack
C8	<b>60109-402</b>	96 Pack
C4	<b>60109-403</b>	96 Pack
Hypercarb	<b>60109-404</b>	96 Pack
Hypercarb and C18 (mix mode)	<b>60109-405</b>	96 Pack
HILIC	<b>60109-406</b>	96 Pack
Trypsin	<b>60109-407</b>	96 Pack
POROS Weak Anion Exchanger	<b>60109-408</b>	96 Pack
POROS Strong Anion Exchanger	<b>60109-409</b>	96 Pack
POROS Strong Cation Exchanger	<b>60109-410</b>	96 Pack
Titanium Dioxide	<b>60109-411</b>	96 Pack
Zirconium Dioxide	<b>60109-424</b>	96 Pack
<b>10-200µL Capacity</b>		
C18	<b>60109-412</b>	96 Pack
C8	<b>60109-413</b>	96 Pack
C4	<b>60109-414</b>	96 Pack
Hypercarb	<b>60109-415</b>	96 Pack
Hypercarb and C18 (mix mode)	<b>60109-416</b>	96 Pack
HILIC	<b>60109-417</b>	96 Pack
Trypsin	<b>60109-418</b>	96 Pack
POROS Weak Anion Exchanger	<b>60109-419</b>	96 Pack
POROS Strong Anion Exchanger	<b>60109-420</b>	96 Pack
POROS Strong Cation Exchanger	<b>60109-421</b>	96 Pack
Titanium Dioxide	<b>60109-422</b>	96 Pack
Zirconium Dioxide	<b>60109-425</b>	96 Pack