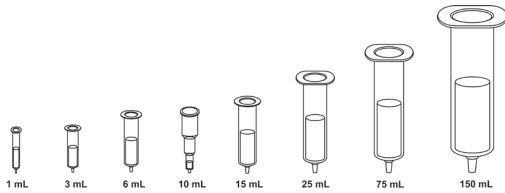


ENVIRO-CLEAN® SOLID PHASE EXTRACTION CARTRIDGES

CATION EXCHANGE PRODUCT GUIDE



Sorbents are offered in the following particle sizes:

- Small Particle (5-20 µm)
- Intermediate Particle (25-40 µm)
- Standard Particle (40-63 µm)
- Large Particle (80-200 µm)

Carboxylic Acid

PART NUMBER UNENDCAPPED	PART NUMBER ENDCAPPED	AMT. SORBENT/ TUBE VOL.	UNITS
EUCCX1L1	–	50 mg/1 mL	100
EUCCX111	–	100 mg/1 mL	100
EUCCX123	–	200 mg/3 mL	50
EUCCX153	–	500 mg/3 mL	50
EUCCX156	–	500 mg/6 mL	50
EUCCX1M6	–	1000 mg/6 mL	30
EUCCX11Z	–	100 mg/10 mL	50
EUCCX12Z	–	200 mg/10 mL	50
EUCCX15Z	–	500 mg/10 mL	50
EUCCX12M15	–	2000 mg/15 mL	20
EUCCX15M25	–	5000 mg/25 mL	20
EUCCX110M75	–	10,000 mg/75 mL	10

% Organic Loading: 9.10

Application:

Scavenger for strong amines with quaternary amines.

Propylsulfonic Acid

PART NUMBER UNENDCAPPED	PART NUMBER ENDCAPPED	AMT. SORBENT/ TUBE VOL.	UNITS
EUPCX1L1	–	50 mg/1 mL	100
EUPCX111	–	100 mg/1 mL	100
EUPCX123	–	200 mg/3 mL	50
EUPCX153	–	500 mg/3 mL	50
EUPCX156	–	500 mg/6 mL	50
EUPCX1M6	–	1000 mg/6 mL	30
EUPCX11Z	–	100 mg/10 mL	50
EUPCX12Z	–	200 mg/10 mL	50
EUPCX15Z	–	500 mg/10 mL	50
EUPCX12M15	–	2000 mg/15 mL	20
EUPCX15M25	–	5000 mg/25 mL	20
EUPCX110M75	–	10,000 mg/75 mL	10

% Organic Loading: 7.10

Application:

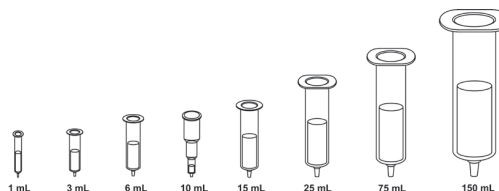
Scavenger for amines, alcohols and other nucleophiles.

ENVIRO-CLEAN® SOLID PHASE EXTRACTION CARTRIDGES

CATION EXCHANGE PRODUCT GUIDE

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Benzenesulfonic Acid			
PART NUMBER UNENDCAPPED	PART NUMBER ENDCAPPED	AMT. SORBENT/ TUBE VOL.	UNITS
EUBCX1L1	–	50 mg/1 mL	100
EUBCX111	–	100 mg/1 mL	100
EUBCX123	–	200 mg/3 mL	50
EUBCX153	–	500 mg/3 mL	50
EUBCX156	–	500 mg/6 mL	50
EUBCX1M6	–	1000 mg/6 mL	30
EUBCX11Z	–	100 mg/10 mL	50
EUBCX12Z	–	200 mg/10 mL	50
EUBCX15Z	–	500 mg/10 mL	50
EUBCX12M15	–	2000 mg/15 mL	20
EUBCX15M25	–	5000 mg/25 mL	20
EUBCX110M75	–	10,000 mg/75 mL	10

% Organic Loading: 11.00

Application:

Scavenger for amines, alcohols and other nucleophiles.

Benzenesulfonic Acid – High Load			
PART NUMBER UNENDCAPPED	PART NUMBER ENDCAPPED	AMT. SORBENT/ TUBE VOL.	UNITS
EUBCX1HL11	–	100 mg/1 mL	100
EUBCX1HL23	–	200 mg/3 mL	50
EUBCX1HL53	–	500 mg/3 mL	50
EUBCX1HL56	–	500 mg/6 mL	50
EUBCX1HLM6	–	1000 mg/6 mL	30
EUBCX1HL1Z	–	100 mg/10 mL	50
EUBCX1HL2Z	–	200 mg/10 mL	50
EUBCX1HL5Z	–	500 mg/10 mL	50
EUBCX1HL2M15	–	2000 mg/15 mL	20
EUBCX1HL5M25	–	5000 mg/25 mL	20
EUBCX1HL10M75	–	10,000 mg/75 mL	10

% Organic Loading: 16.00

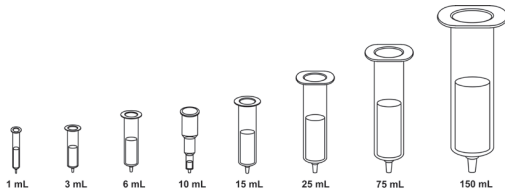
Application:

Scavenger for amines, alcohols and other nucleophiles.



ENVIRO-CLEAN® SOLID PHASE EXTRACTION CARTRIDGES

CATION EXCHANGE PRODUCT GUIDE



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Triacetic Acid			
PART NUMBER UNENDCAPPED	PART NUMBER ENDCAPPED	AMT. SORBENT/ TUBE VOL.	UNITS
EUTAX1L1	—	50 mg/1 mL	100
EUTAX111	—	100 mg/1 mL	100
EUTAX123	—	200 mg/3 mL	50
EUTAX153	—	500 mg/3 mL	50
EUTAX156	—	500 mg/6 mL	50
EUTAX1M6	—	1000 mg/6 mL	30
EUTAX11Z	—	100 mg/10 mL	50
EUTAX12Z	—	200 mg/10 mL	50
EUTAX15Z	—	500 mg/10 mL	50
EUTAX12M15	—	2000 mg/15 mL	20
EUTAX15M25	—	5000 mg/25 mL	20
EUTAX110M75	—	10,000 mg/75 mL	10

% Organic Loading: 7.61

Application:

Chelator for metal ions.

- i.e.
- tin
 - palladium
 - copper
 - ruthenium
 - chromium
 - nickel

EXTRACTION AND TROUBLESHOOTING TIPS

Common SPE Errors:

- Sample extracted too rapidly—remedy, reduce vacuum setting
- Testing the pH of water with pH paper—remedy, use pH meter
- Over drying of the extract—remedy, reduce time in evaporator or N2 flow and temperature of bath
- Over drying of the sorbent in the cartridge after extraction—remedy, reduce vacuum setting or dry time