STYRE SCREEN® POLYMERIC RESIN EXTRACTION SORBENTS

STYRE SCREEN® extraction sorbents are formulated with an ultra clean, highly cross-linked styrene and divinylbenzene polymer sorbent. The sorbent can be functionalized with many of the same phases as our silica based sorbents. Possibilities include standard hydrophilic, hydrophobic, or ion exchange functionalities as well as copolymeric phases such as the DBX or THC phases. STYRE SCREEN® particles have an average particle size of 30 microns. This polymeric sorbent has a very high analyte capacity. This higher capacity translates into a lower bed mass. Lower bed mass means extractions can be run at faster flow rates and with less solvent usage. The STYRE SCREEN® sorbent also eliminates the need for an initial column conditioning step. All these attributes ultimately result in improved cost to the end user.

Advantages of STYRE SCREEN®

- No conditioning step
- High and reproducible recoveries
- Highly cross-linked sorbent minimizes bead swelling
- Reduced sorbent mass
- Improved flow rates
- pH stable from 1 – 14
- Reduced solvent use
- High sorbent capacity
- Methods for NIDA/SAMHSA 5 Drugs

STYRE SCREEN® DVB – Polystyrene Divinylbenzene

Application: Retention of neutral and aromatic compounds, useful for screening applications where a broad range of analytes is to be extracted

Structure:

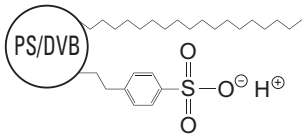
COLUMNS			
Tube Volume (mL)	Sorbent Amount (mg)	Units per Pack	Part Number
1	10	100	SSDVB0X1
1	30	100	SSDVB031
1	100	100	SSDVB111
3	30	50	SSDVB033
6	50	50	SSDVB056
6	200	30	SSDVB206
6	500	30	SSDVB506
10	100	50	SSDVB11Z

WELL PLATE				
Number of wells	Sorbent Amount (mg)	Units per pack	Extended Drip Tip	Part Number
48	60	1	NO	WSH48DVB406
96	30	1	NO	WSHDVB403
96	50	1	NO	WSHDVB405
96	60	1	NO	WSHDVB406

STYRE SCREEN® DBX – Octadecyl (C18) and Benzenesulfonic Acid – Mixed Mode

Application: Retention of weakly basic and hydrophobic compounds

Structure:



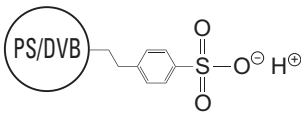
COLUMNS			
Tube Volume (mL)	Sorbent Amount (mg)	Units per Pack	Part Number
1	30	100	SSDBX031
3	30	50	SSDBX033
3	30	500	SSDBX033-D
3	60	50	SSDBX063
6	50	50	SSDBX056
6	50	500	SSDBX056-D
6	150	50	SSDBX(150)06
6	200	50	SSDBX206
10	50	50	SSDBX05Z

WELL PLATE				
Number of wells	Sorbent Amount (mg)	Units per pack	Extended Drip Tip	Part Number
96	30	1	NO	WSHDBX403

STYRE SCREEN® BCX – Benzensulfonic Acid – Cation Exchange

Application: Retention of weakly basic compounds

Structure:

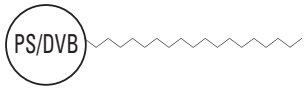


COLUMNS			
Tube Volume (mL)	Sorbent Amount (mg)	Units per Pack	Part Number
1	30	100	SSBCX031
3	30	50	SSBCX033
3	60	50	SSBCX063
6	50	50	SSBCX056

STYRE SCREEN® C18 – Reverse Phase

Application: Retention of hydrophobic compounds

Structure:

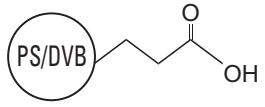


COLUMNS			
Tube Volume (mL)	Sorbent Amount (mg)	Units per Pack	Part Number
1	30	100	SSC18031
3	30	50	SSC18033
6	50	50	SSC18056
6	200	50	SSC18206
6	300	50	SSC18306
6	500	50	SSC18506
75	5000	10	SSC1815M75

STYRE SCREEN® CCX – Carboxylic Acid – Cation Exchange

Application: Retention of basic compounds, particulary strong bases

Structure:



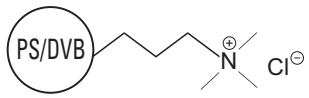
COLUMNS			
Tube Volume (mL)	Sorbent Amount (mg)	Units per Pack	Part Number
1	30	100	SSCCX031
3	30	50	SSCCX033
3	50	50	SSCCX053
3	60	50	SSCCX063
6	50	50	SSCCX056

WELL PLATE				
Number of Wells	Sorbent Amount (mg)	Units per Pack	Extended Drip Tip	Part Number
96	30	1	NO	WSHSSCCX103

STYRE SCREEN® QAX – Quaternary Amine – Anion Exchange

Application: Retention of weakly acidic compounds

Structure:



COLUMNS			
Tube Volume (mL)	Sorbent Amount (mg)	Units per Pack	Part Number
1	30	100	SSQAX031
3	30	50	SSQAX033
6	50	50	SSQAX056
6	150	50	SSQAX(150)06

STYRE SCREEN® THC

Structure: Proprietary

Application: Retention of THC and THC metabolites (THC-delta-9, THC-hydroxy metabolite and THC-carboxy metabolite)

COLUMNS			
Tube Volume (mL)	Sorbent Amount (mg)	Units per Pack	Part Number
1	30	100	SSTHC031
3	60	50	SSTHC063
6	60	50	SSTHC066
10	60	50	SSTHC06Z
6	100	50	SSTHC116
10	100	50	SSTHC11Z