



## XTRX™ Columns

Xtrx™ Extraction Columns were designed and intended for use in the extraction of analytes from liquid samples using the DuPont PREP™ Automated Sample Processor. Although the DuPont Prep system is still available for purchase, these columns may also be used on a standard vacuum manifold.



There are four components to each extraction column: a cap, extraction column, effluent cup, and recovery cup. The cartridge components are nested together so that the cap and the effluent cup seal the extraction column and preserve the activation of the resin bed. There is also a small poly ball that rests inside the column to contain the adsorbent or resin.



The extraction column contains a nominal amount of adsorbent or resin ( $\approx 120$  mg) held by a porous bed support. The reservoir of the extraction column has a capacity of 4 mL. The effluent cup has a capacity of 6 mL and is used to collect the column effluent while the rotor of the sample processor is spinning clockwise. Typically, this is the initial sample effluent and any wash solvent.

The recovery cup has a capacity of 4 mL and its function is to collect the column effluent while the rotor is spinning counterclockwise. Typically, sample components are desorbed from the resin bed with an acidic eluting solvent and collected in the recovery cup. The cap, which is initially used to contain the adsorbent or resin, can be reused to cap the recovery cup or effluent cup.

The solid phase extraction process involves a partitioning of the sample components between a moving liquid phase (buffered aqueous sample matrix, wash solvent, or eluting solvent) and a solid stationary phase (resin bed)

The concept of solid phase extraction of materials of interest from biological matrices has a long history. There are published extraction methods for isolating drugs of abuse, analgesics, steroids, anticholinergics, amphetamines, anticonvulsants, antimicrobials, catecholamines, and urinary metabolites.

150 columns/box (including 150 Recovery Cups)

PACKING	MILLIGRAMS	CATALOG NO.
AX/S	120	11-50
AX	120	11-51
UNIBOND™ C18	120	11-52
SILICA GEL	120	11-53
RP/W	120	11-54