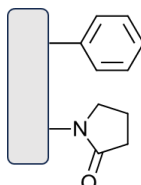


TEMIZ™ HLB-SPE Resin

Material overview

TEMIZ™ HLB-SPE Resin is a polymeric resin with a combination of hydrophobic (DVB/Sty) and polar properties (Pyrrolidone) and are made in a size range optimal for use in analytical flow-through SPE columns.

Resin parameter	Value
Resin backbone	DVB/Sty
Surface chemistry	Pyrrolidone
Particle size	20-90 µm
Pore size, ca	mesoporous
Water wettability	directly



Schematic structure of hydrophobic benzyl groups and hydrophilic pyrrolidone surface chemistry groups

Material properties and areas of use

This resin is an alternative to HLB SPE products on the market. Although alternative HLB products are similar, each commercial HLB resin may perform differently, and the user must determine which variant is best suited for their specific application for a given group of target analytes.

TEMIZ™ HLB is characterized by being quickly water-wettable thereby obviating a pre-conditioning step in the sample preparation process using organic solvents. The resin is pH-stable from 1-14, has an exceptional selectivity for small organics compounds or oligomeric biomolecules spanning a wide range of differing polarities and Log P values. Target matrices include food or environmental samples but also biological samples such as urine, serum, plasma, or the like.

Application and format

Recommended use is in solid phase extraction (SPE)-LC-MS/MS applications. The user may pack TEMIZ™ HLB SPE into SPE columns, multi-well plates or other formats for use in bio/analytical applications. It allows for a simplified SPE workup (user must optimize their specific method):

- 1) dilute sample
- 2) wash with water/5% MeOH
- 3) elute with MeOH/AcN 1:1

The resin can also be used in suspension mode to adsorb the target compounds. The resin can then be either filtered off or separated from the liquid by sedimentation. Further desorption and elution steps can be adapted depending on the target application.

See Webshop for prices, or inquire directly at order@redstone-sep.com