

Poly[™] Clean

Easy to use
ultrapure
SPE Polymers



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PolyClean™

PolyClean™ 2H

Hydrophilic / Hydrophobic proprietary polymer with high capacity that provides optimum extraction of polar & non-polar, Acidic, Neutral & Basic compounds from various Matrix.

PolyClean™ HCX

Hydrophilic / Hydrophobic polymer, SCX modified. It allows two retention mechanisms directly suitable for the extraction and pre-concentration of Basic compounds (cationic) from BioFluids and environmental analysis.

PolyClean™ HAW

Hydrophilic / Hydrophobic proprietary polymer, WAX modified. Dedicated for extraction and pre-concentration of Highly Acidic compounds (anionic) from BioFluids.

Easy to use ultrapure SPE Polymers

PolyClean™ HCW

Hydrophilic / Hydrophobic proprietary polymer, WCX modified. Dedicated for extraction and pre-concentration of Highly Basic compounds from BioFluids, especially strong bases and Quaternary Amines.

PolyClean™ HAX

Hydrophilic / Hydrophobic proprietary polymer, SAX modified. It allows two retention mechanisms dedicated for High Selectivity and Sensitivity for Acidic compounds.

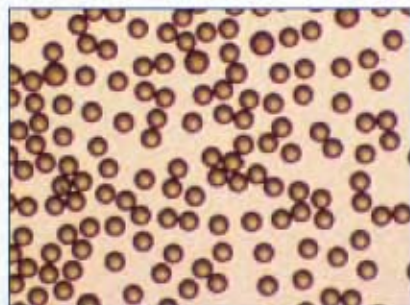
DESCRIPTION

Name	Code	Type
PolyClean™	302H 2H	Mixed Polymer (hydrophilic /hydrophobic)
PolyClean™	30HCX HCX	Mixed Polymer (hydrophilic /hydrophobic)
PolyClean™	30HCW HCW	Mixed Polymer (hydrophilic /hydrophobic)
PolyClean™	30HAX HAX	Mixed Polymer (hydrophilic /hydrophobic)
PolyClean™	30HAW HAW	Mixed Polymer (hydrophilic /hydrophobic)

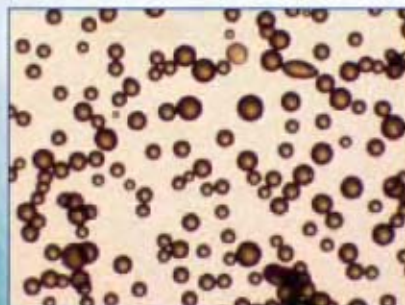
FEATURES

Particle size	Surface Area	Modification	Ion Exch. capacity
30 µm 60 µm	850 m ² /g	Proprietary	n. a.
30 µm 60 µm	850 m ² /g	Strong Cation Exch.	1 meq/g
30 µm 60 µm	850 m ² /g	Weak Cation Exch.	0,8 meq/g
30 µm 60 µm	850 m ² /g	Strong Anion Exch.	0,3 meq/g
30 µm 60 µm	850 m ² /g	Weak Anion Exch.	0,7 meq/g

Accurate Bed Technology™ vs Competitors



PolyClean™ 2H 60µm



W Competitor 60 µm

SPE METHOD DEVELOPMENT GUIDE

Method 1*



Strong Acids
pKa < 1



Weak Bases
2 < pKa < 10

Use
PolyClean™ HAW

Use
PolyClean™ HCX

Column Conditioning - MeOH

Add Sample

Washing
Acidic H₂O (ex: 2% Formic Acid)



Weak Acids

Elution 1
MeOH



Neutrals

Elution 2
MeOH/NH₄OH 5%



**Strong Acids,
Weak Bases**

Method 2*



Neutrals

Use
PolyClean™ 2H
Atoll™ X, XC, XWP

Column Conditioning - MeOH

Add Sample

Washing
H₂O / MeOH (5 - 10%)



Polar compounds

Elution 1
MeOH



Neutrals

Method 3*



Weak Acids
2 < pKa < 8



Strong Bases
pKa > 10

Use
PolyClean™ HAX

Use
PolyClean™ HCW

Column Conditioning - MeOH

Add Sample

Washing
MeOH / NH₄OH 5%



Weak Bases

Elution 1
MeOH



Neutrals

Elution 2
Acidic H₂O
(ex: 2% Formic Acid)



**Weak Acids,
Strong Bases**

PolyClean™



State-of-the-art, PolyClean™ pushes the boundaries of expectation from modern day sample preparation challenges.

Accurate Bed Technology™

Weighing technology with +/- 1% accuracy
Guarantee of reproducibility from batch to batch & column to column.



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