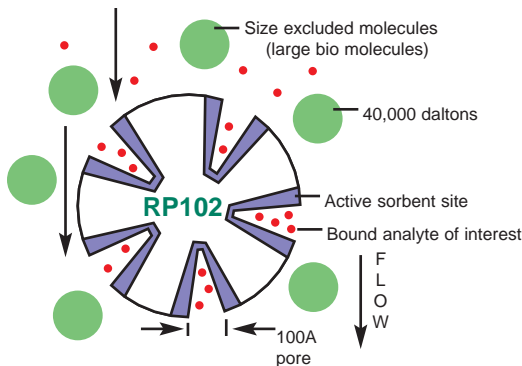


Spe-ed™ RP Resins

Reverse Phase Polymer-based Resins for Sample Preparation



Spe-ed RP resins are a family of polymeric media useful for sample preparation. *Spe-ed* RP resins are porous spherical beads, contain a high surface area and are chemically stable to maximize extraction efficiency.

Large bio molecules are not adsorbed onto the RP resin surface. Because of their larger size, they are excluded from adsorbing onto the active sorbent site inside the pores. Smaller molecules are trapped on the active sorbent sites in these pores.

Substitute for C18 SPE Cartridges

Spe-ed RP resin cartridges offer many advantages.

Directly substitute *Spe-ed* RP resins in your current applications where silica-based C18 may not be giving you optimum recovery.

pH stable (1 - 14)

- process high and low pH samples without sorbent decomposition like C18
- retain strongly basic amines at high pH conditions

Eliminate residual silanols

- eliminate secondary interaction caused by residual silanols on C18/silica SPE cartridges (use exclusively reverse phase mechanism)

Biomolecules to small drugs

- the range of pore sizes allows the application of *Spe-ed* RP cartridges for many types of molecules from small molecule drugs to oligonucleotides
- optimized particle size for easy throughput of biological samples such as urine, plasma or serum

Applications

- replace C18/silica SPE cartridges with pH resistant *Spe-ed* RP resins
- remove endotoxins
- exchange solvents
- separate hydrophobic molecules by size
- desalt samples
- environmental - herbicide / pesticide residues
- sulfonyleurea herbicides

Particle Size Uniformity

- Zero Fines
- Large Surface Area



Leads to

- Excellent Extraction Efficiency
- High Recoveries

*Spe-ed*TM RP Resins Reverse Phase Polymer-based Resins for Sample Preparation

RP Resin Characteristics

RP resins are non-polar, non-ionic, ultra-clean, highly crossed-linked polymers that differ in particle size, pore size and surface area. Select a resin with a pore size large enough to allow your analyte to enter the pore and adsorb onto the pore surface.

	PARTICLE SIZE (AVG) microns	EXCLUSION LIMIT daltons
RP101	120	70,000
RP102	100	400,000
RP103	75	300,000
RP104	35	800,000

Resin Selection

Spe-ed RP cartridges are pre-packed with measured amounts of dry, free-flowing, chromatographic resin. The cartridges are made of medical grade polypropylene. These pre-filled cartridges are available in a wide range of sorbent weight and cartridge size combinations.

STANDARD SIZES

	50mg/1mL	100mg/1mL	200mg/3mL	500mg/6mL
RP101	4295	4201	4202	4204
RP102	4299	4207	4208	4210
RP103	4296	4213	4214	4216
RP104	4297	4219	4220	4222
cartridges/box	100	100	50	30

Custom resin weights available.