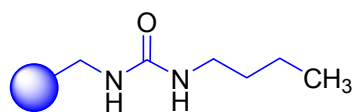


PL-Urea & PL-Thiourea MP-Resins



Description

Polymer supported urea

Polymer supported thiourea

Synonyms

None

Applications

PL-Urea and PL-Thiourea MP-Resins are macroporous products designed to provide strong interactions with a variety of heavy metal species. They may therefore be used to remove a number of organometallic catalysts from solution.

Catalysts containing ruthenium (e.g. Grubbs and Grubbs-Hoveyda), rhodium (e.g. Wilkinsons) and numerous other metals (copper, tin, platinum, palladium etc.) can prove difficult to remove from pharmaceutical lead compounds. This may cause subsequent problems with cell-based assays unless levels can be reduced below 5ppm.

By providing a macroporous resin containing a strong chelating functional site, residual metal content can be reduced significantly either in batchwise or flow through modes.

		Pd	Pt	Ru	Sn
PL-Thiourea	H ₂ O	✓	✓	✓	✓
	THF	✓	✓	✓	✓
	DMF	✓	✓	✓	✓
PL-Urea	H ₂ O	x	✓	x	x
	THF	x	✓	x	✓
	DMF	x	✓	x	✓

References

Bakibaev, A A & Shtrykova, V V (1995), Russ Chem Rev, **64**, 929

Mendonca et al. in "Versatile Macroporous Resins: Scavengers for Synthetic Organic Chemistry", poster presented at 229th ACS National Meeting, in San Diego, CA, March 13-17, 2005

Boguszewski et al. in "Facile Removal of Metal Species Using Polymeric SPE Materials Functionalized With Uronium and Thiol Ligands", poster presented at 231st ACS National Meeting, Atlanta, GA, March 26-30, 2006

Products Information

Macroporous

PL-Urea MP-Resin

>2.0mmol/g 100Å 150-300µm (50-100 mesh)

PL-Thiourea MP-Resin

>2.0mmol/g 100Å 150-300µm (50-100 mesh)

See Also

PL-BnSH MP Resin, PL-DEAM MP-Resin, PL-DETA MP-Resin, PL-EDA MP-Resin, PL-TBD MP-Resin, PL-TMT MP-Resin, PL-TPP MP-Resin and PL-SO₃H MP-Resin