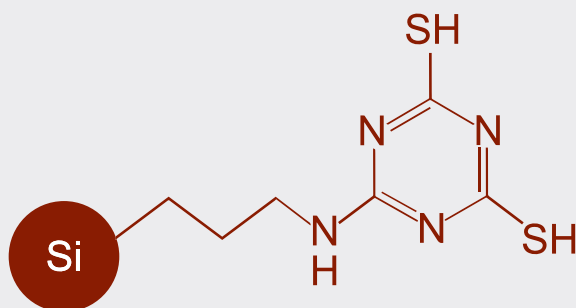

Nexgen Purifications

Metal Scavenging

Dimercaptotriazine (DMT)

Nexgen Purifications Metal Scavenging Line is designed to retain excess organometallic catalysts commonly utilized in industrial synthesis enabling purification by simple filtration. Specific impurities are targeted including precious metals such as Pd, Pt, Ru and Rh to isolate the final desired product. Our Nexgen Purifications Metal Scavengers are highly selective in achieving the necessary purity levels for metal contamination, cost-effective, and available in cartridge format or bulk quantities.

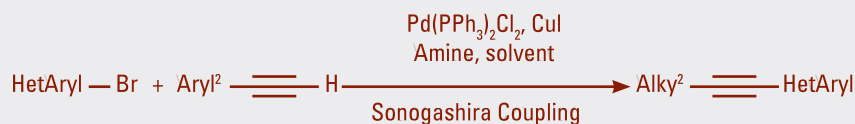
Nexgen Purifications – Metal Scavenging Dimercaptotriazine (DMT)



Loading: 0.83 mmol/g
Surface Area: 525 m²/g
Average Pore Size: 60Å
Pore Volume: 0.79 cm³/g

Metals Targeted**Best Metals Scavenged:** Ir, Ni, Os, Pd, Pt, Rh & Ru**Good Metals Scavenged:** Cd, Co, Cu, Fe, Sc & Zn

Case Study: Removal of Palladium from Sonogashira Coupling Reaction Using Various Metal Scavengers



Treated 2.6 g solution in 2-MeTHF containing about 0.5 g of product. Loadings are g/g of contained product. Pd results are estimated based on contained product.

Scavenger name	Loading (g/g)	Pd with respect to substrate (ppm)
Untreated	NA	154
Nexgen Purifications Si-DMT Lot AA	20%	20
Nexgen Purifications Si-DMT Lot AB	20%	18
Nexgen Purifications Thiopropyl	20%	59
Competitor 1 SPM32	10%	41
Competitor 1 SPM32	20%	39
Competitor 1 STA3	10%	34
Competitor 1 STA3	20%	22
Competitor 2 Si-Thiol	20%	40
Competitor 2 Si-DMT	20%	ca. 21
Competitor 3 G60 only	20%	95
10% Aq N-Ac-Cysteine (pH 3)	500%	92
10% Aq N-Ac-Cysteine (pH 11)	500%	45

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