Nexgen Purifications Metal Scavenging

Thiopropyl

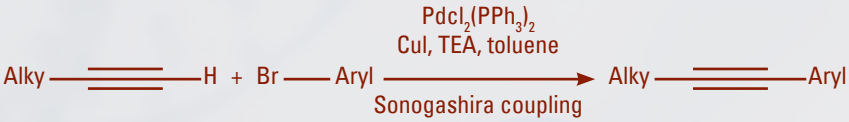
Nexgen Purifications Metal Scavenging Line is designed to retain excess organometallic catalysts commonly utilized in industrial synthesis enabling purification by simple filtration. Specific impurities are targeted including precious metals such as Pd, Pt, Ru and Rh to isolate the final desired product. 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 Thiopropyl

Loading: 1.6 mmol/g
Surface Area: 500 m^2/g
Average Pore Size: 60Å
Pore Volume: 0.77 cm^3/g

Metals Targeted
Best Metals Scavenged: Ag, Hg, Os, Pd & Ru
Good Metals Scavenged: Cu, Ir, Pb, Rh & Sn

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



Scavenger name	Pd in toluene solution (ppm)	Pd with respect to substrate (ppm)
No Scavenger (Control)	45.0	1800
Nexgen Purifications Silica Thiopropyl	< 3	< 120
Nexgen Purifications Silica Triamine	3.9	156
Competitor 1 MTcf	< 3	< 120
Competitor 1 SPM32-f	3.0	120
Competitor 1 SPM32	< 3	< 120
Competitor 1 SPM36-f	4.9	196
Competitor 1 SEM 26	4.0	160
Competitor 1 SPM36	6.7	268
Competitor 1 SEA	4.7	188
Competitor 1 STA 3	4.9	196
Competitor 2 MP	5.4	216
Competitor 2 TA	6.2	248
Competitor 2 AP	4.4	176
Competitor 3 Thiourea	< 3	< 120
Competitor 3 -Thiol	5.0	200
Competitor 3 DMT	4.0	160
Competitor 3 diamine	7.4	296
Competitor 3 triamine	5.0	200
Competitor 4 -TU	20.5	820
Competitor 4-BZA	16.2	648
Competitor 5 SA-FC Si-1	8.6	344

*All samples were incubated overnight at ambient temperature before filtration and all of them received 50 wt% loading of scavenger.

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