

Application Note M6.0

Scavenging a Platinum Catalyst

A metal scavenging study using **SiliaBond Metal Scavengers** products was conducted on a platinum catalyst commonly used in organic synthesis. Various parameters were studied for their influence on the scavengers' robustness as well as to establish the best conditions to bring the level of metal down to an acceptable level for the pharmaceutical industry (i.e.: solvent, number of equivalents, temperature, and reaction time).

SCAVENGING A PLATINUM CATALYST RESULTS

H ₂ PtCl ₆ · 6H ₂ O: Residual Platinum Concentration		
Scavengers	Conditions	Pt (ppm)
SiliaBond Diamine	4eq., 4h, 80°C	2.2
SiliaBond Triamine	4eq., 16h, 80°C	2.3
SiliaBond DMT	4eq., 4h, 80°C	< 1

Initial concentration: 1 000 ppm in DMF

