

Maximising potential returns

Pharmaceutical Application Note

Palladium removal from discovery through to commercialisation

About PhosponicS

Since 2005, PhosponicS has enabled the pharmaceutical industry to develop life-saving medicines.

Our functionalised silica products extract any unwanted Pd species from your APIs, so you meet or exceed regulatory requirements and accelerate drug development to increase your return on investment.

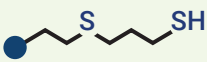
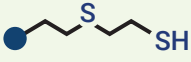
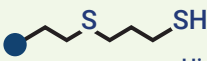
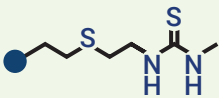
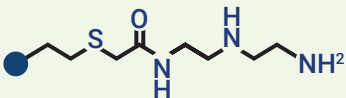


Superior purification

- Increased speed to market
- Meet, even exceed regulatory requirements
- Fully scalable

Introducing PhosponicsS Pd Removal Products

PhosponicsS has developed a range of superior performing silica products to meet the highest standards required by the pharmaceutical industry.

Product code	Product structure
SPM32	
SEM26	
SPM36f	 High cross linking
MTCf	
STA3	

You can order your Pd Removal Test Kit in a convenient 10g size. Please refer to Pd5-Kit 10 when ordering.

What Makes PhosponicsS Unique?

PhosponicsS uses patented technology for attaching powerful ligands to a silica backbone. The ability to incorporate multiple chelating sites enables our silica products to outperform other solid supported products, at every concentration of Pd in your stream.



Advantages of PhosponicsS Pd removal products

- Superior results consistently achieved across a wide range of APIs
- Higher product yields from your purification process
- Proven track record from lab through to plant scale

Advantages of silica as a support

- Highly porous for optimised stream flow
- Stable in both aqueous and organic media
- Larger surface area for higher loading

Case Studies

PhosphonicS supporting the pharmaceutical industry

Pd metal catalysts are widely used in the pharmaceutical industry to carry out an extensive range of coupling reactions and deprotections during early stage research through to full scale manufacturing of APIs.

The effective removal of unwanted traces of Pd improves the success rate of meeting stringent regulatory compliance requirements and accelerates drug development and commercialisation.

Ease of use, flexible formats

PhosphonicS can supply scavengers in a wide range of formats for ease of use at different scales of operation.

Our scavengers are most routinely applied in slurry mode with overhead stirring, but increasingly customers are developing more sophisticated methods for API production throughout the drug development process. From SPE cartridges for Med Chem applications through to customised cartridge units for full scale production, we ensure the right solution is tailored to your needs.

Order Your Phos Screening Kit

To order your Phos Screening Kit send an email requesting a Phos-Kit 10 to sales@phosphonic.com



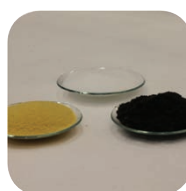
Result

- <10 ppm Pd
- High product yield
- Plant scale

Stream

- 600 ppm Pd
- Toluene

Pd-catalysed α -arylation



Result

- <10 ppm Pd
- No product loss
- Superior performance

Stream

- 1,000 ppm Pd
- Me-THF/DMF

Suzuki coupling



Result

- <5 ppm Pd
- API integrity preserved
- Excellent yield

Stream

- >100 ppm Pd
- Aqueous-organic mixture

Pd(0)-catalysed coupling

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