« Less is More » when using scavengers in API purification

Diego Rodriguez, PhD, SiliCycle



Alternatives for API impurity elimination

High yield of recovery

- 1/5 average Scavenger/API
- Ease of use, optimization and scaleup
- Simple troubleshooting and GMP validation: low-pressure, no

Scavengers

API purification

Crystalization

Chromatography



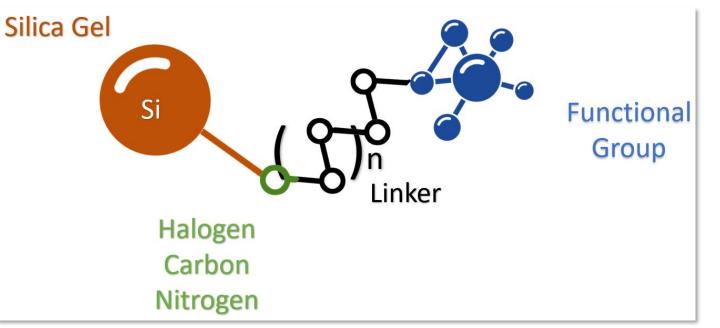
electronica

- Compromised API recovery yields
- Complex&time consuming multiple
 steps
- Global ROI implications

Liquid-Liquid extraction

- Expensive hardware, phase and solvents
- 5/1 Phase/API
- Complex scale-up and optimization
- Complex troubleshooting: ²high

- Metal Scavengers
- > Organic Scavengers
- Chromatography
- Reagents



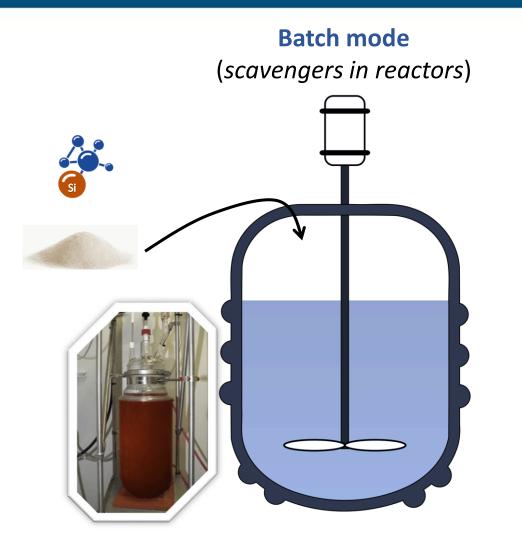




Quick impurity elimination with scavenger followed by filtration







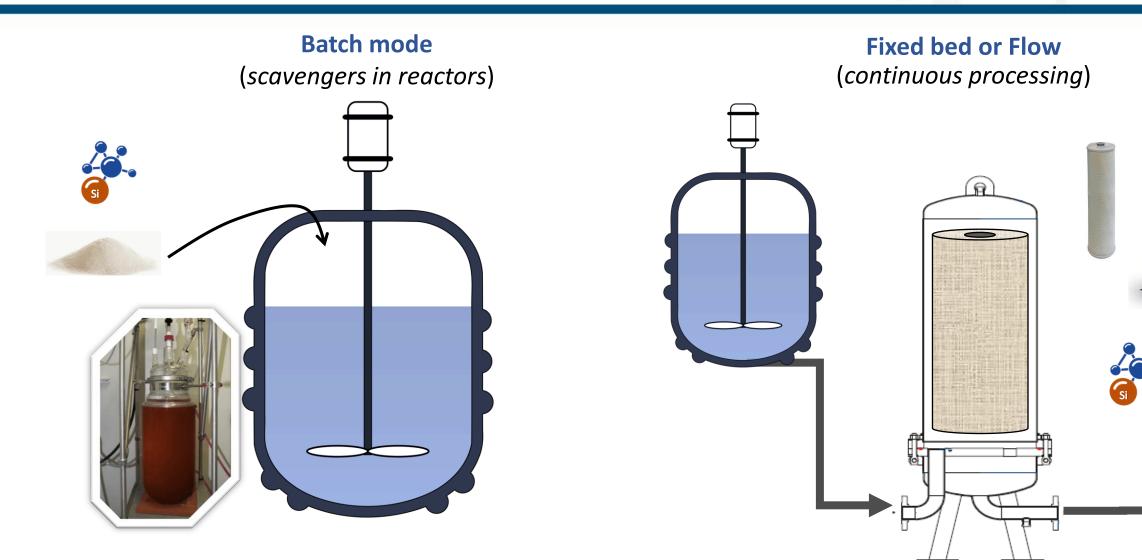
Silia*MetS*[®]

Remaining steps :

- Filtration
- Reactor cleaning



Industrial scale propietary continues flow operation







E-PAK low pressure impurity removal





≥ 23% of employees work in R&D

Avg of 30 R&D projects per annum

> Special projects categories:

- Metal and organic scavenging screenings
- Synthetic chemistry services
- Separation center
- Custom column packing
- Material science
- Analytical lab and QC





Silicycle

SiliCycle Headquarters (Quebec City, CANADA)





Direct Sales House Accounts

Distributors / Stocking Capability

Direct Sales Force



