

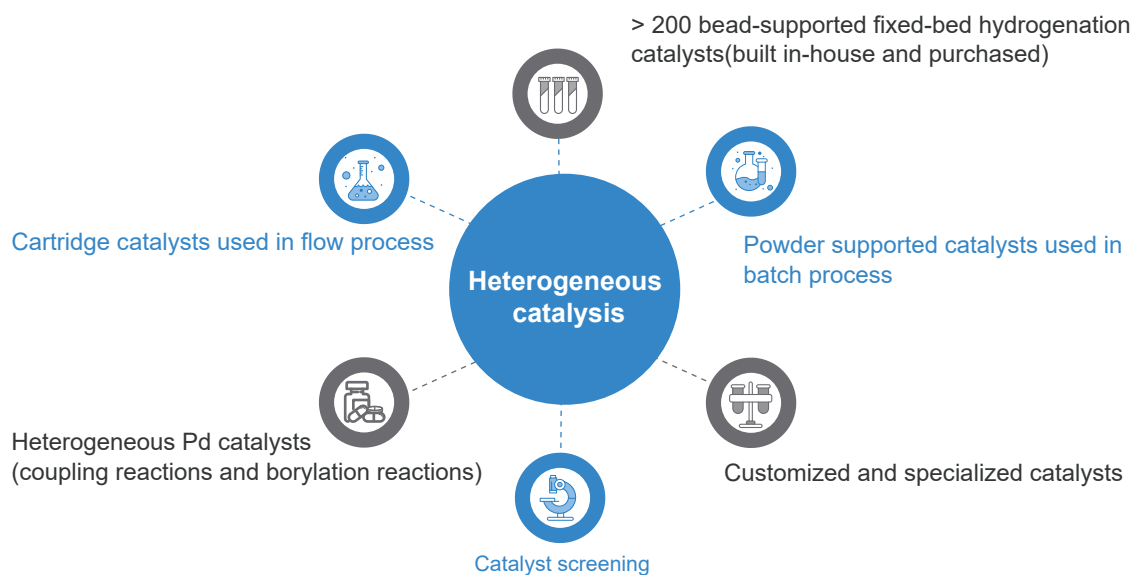
Catalysis

300+
heterogeneous catalysts

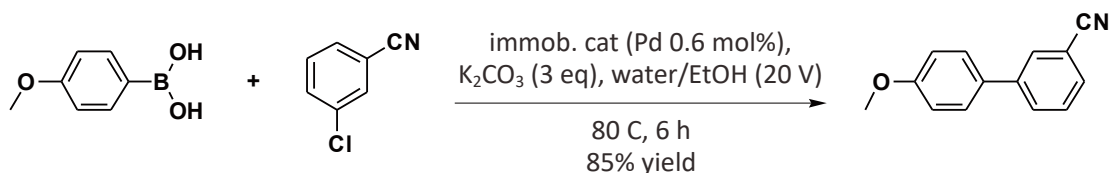
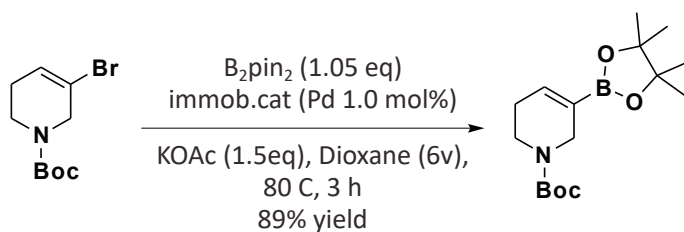
200+
biocatalysis projects

kilo to hundred-kilo scale

Heterogeneous catalysis



Miyaura borylation and Suzuki coupling case



Phosphine compound is polymerized into bulk material, thus the ligand is micronized and suitable for separation and recycling.

Catalysis

Biocatalysis



Library enzyme screening

Process development

Manufacturing

Benefits

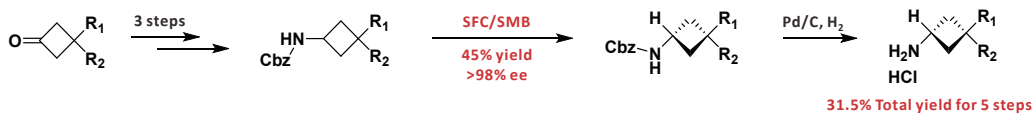
Significant cost savings

Safer process, better quality and shorter timeline

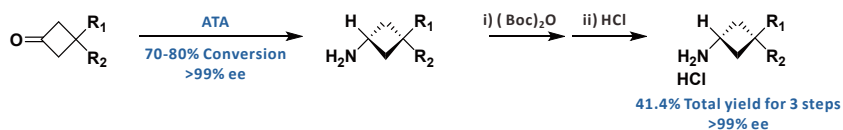
Continuous improvement enabled by continuous enzyme engineering

- > 500 enzymes in stock (commercial and in-house)
- Fermentation: up to 100 L
- Screening and process development
- Directed evolution

Case



Biocatalysis route 1:



Biocatalysis route 2:

