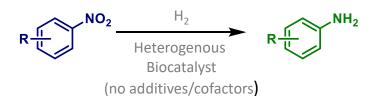
Clean, simple nitro reductions Biocatalytic hydrogenation for simple and sustainable precision chemical manufacturing



'Black powder' biocatalyst system for clean aromatic amine production via nitro group reduction.

- Clean conversion to amine product, no intermediates detected (e.g. no hydroxylamine)
- No additives or cofactors required
- Simplified analysis and product isolation
- Existing hydrogenation protocols and infrastructure can be used
- Broad substrate scope, proven chemo-selectivity
- Multi-day catalyst stability



Optimal conditions:

- pH 6-8 (inc. water)
- 0-10% cosolvent (more tolerated)
- 20-35 °C
- 1-4 bar H₂

Batch and Continuous Flow

HydRegen will provide 'black powder' catalysts that slot into existing benchtop hydrogenation infrastructure, allowing you to make use of your existing equipment and expertise.



Also ask us about

- Aliphatic nitro reduction
- Azide reduction
- NADH-dependent biocatalysis

We can provide biocatalyst samples and technical support for early evaluation partnerships, with a preorganised feedback meeting to inform our ongoing product development.

