

New and Cost-effective Direct Lactide Production

Technology Overview

- Cost effective production technology of lactide from lactic acid
- Due to the increasing market of PLA, a need for efficient preparation of lactide, well-established monomer for PLA preparation, is fast growing;

Core Technologies

- 1 step direct conversion of lactic acid to lactide
- New catalyst for direct conversion process
- Conversion & purification process technologies for the lactide production

Application Area and Advantages

- High-throughput production of lactide from lactic acid(> WHSV 1.5/h)
- Good lactide yield (92-95%)
- High *l*- or *d*-lactide selectivity (>98%)
- Long-term catalyst stability (>1500h)
- High lactide purity & low purification cost

Accomplishments

- Strong IP Portfolios
- Looking for licensing & collaborative research opportunities

