

## Enzymatically Hydrolyzed Soy Lecithin

### LeciOIL™ Hy50

#### Description

LeciOIL™ Hy50 is a strongly enzymatically hydrolyzed soy lecithin liquid with a high lysophospholipid content, developed for applications requiring efficient emulsification, improved dispersibility, and enhanced interfacial activity.

Through controlled enzymatic hydrolysis, a substantial fraction of native phospholipids is converted into lysophospholipid species (such as LPC, LPE, LPA and LPI). This compositional shift leads to a reduced molecular weight distribution, increased hydrophilicity, and significantly improved surface activity compared with conventional soy lecithin.

#### Features:

- ✧ High content of lysophospholipid, providing strong emulsifying power
- ✧ Excellent water dispersibility and rapid hydration
- ✧ Effective stabilization of oil-in-water systems, even at low dosage
- ✧ Consistent performance across a wide pH range

#### Typical Applications

- ✓ Beverage and liquid food systems
- ✓ Flavor, aroma and terpene emulsions
- ✓ Nutraceutical and functional formulations
- ✓ Agricultural and industrial emulsifier systems

#### GMO Status:

This product is made from genetically modified soybeans and can reach an undetectable level of endogenous genes, with a detection limit of is 0.1% (LOD).

#### Specifications

Parameter	Value
Appearance	Amber to brown liquid
Odor	Characteristic mild
Acetone insoluble	50% min
Total Phospholipid content (PL)	30% min
Total Lysophospholipid (LPL)	15% min
Lys phosphatidylcholine (LPC)	7% min
Moisture	≤2.0%
Acid value	≤65 mg KOH/g
Peroxide value	≤10 meq O <sub>2</sub> /kg
Solubility	Dispersible in water and oils

pH (10% aqueous solution)	5.0–7.0
Viscosity (CPS 25°C)	12000 max
Heavy metals (Total)	10 ppm max
Arsenic	3 ppm max
<b>Microbiological specifications</b>	
Total plate count (cfu/g)	1000 max
Yeasts/Molds (cfu/g)	30 max
Salmonella (25g)	Absent
Enterobacteriaceae (cfu/g)	Absent

#### Typical Lysophospholipid Composition

Lyso-Phospholipids	Weight %
LPC	7.4
LPI	3.5
LPE	2.5
LPA	2.2

#### Allergen information

Contain Soy

#### Packages

- ✓ 200KG open head Iron drums
- ✓ 1000KGS IBC Tanks

#### Label

Main composition: Lecithin 50%.

#### Storage

Stored in the dry and cool place temperature should be blow 35 °C, away from moisture and sunlight.

Once the package is opened, please use it up in short time.

#### Self-life

24 months in the original packages



ORISON CHEMICALS LIMITED | Add: 905, Yihang Int'l Bldg. 5, Binhai, Tianjin, China. 300462

Tel: +86 22 25600945 | Website: <https://lecipro.com> | E-mail: [sales@lecipro.com](mailto:sales@lecipro.com)

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