

Liquid Soy Lecithin E322

(Food Grade, Non-GMO)

Version: 11/2025 | Daralex Agro S.R.L.

1. GENERAL INFORMATION

Product Name	Liquid Soy Lecithin – E322
Internal Product Code	DAR-SOY-L322-FG
Classification	Food additive – emulsifier, stabilizer, natural antioxidant
Origin	Vegetable (from non-genetically modified soybeans)
Production Date	October 15, 2025
Physical Form	Homogeneous viscous liquid, yellowish-brown to dark brown color
Distributor/Importer	Daralex Agro S.R.L., Romania
CN / HS Code	2923.20
Reference Standard	Regulation (EU) No. 231/2012
Status	Food Grade – intended for food industry

2. CHEMICAL COMPOSITION

Parameter	Value
Total Phosphatides	60–72%
Triglycerides and Free Fatty Acids	25–35%
Carbohydrates, Water and Other Minor Components	3–5%
Proteins	<1%

3. PHYSICO-CHEMICAL PARAMETERS

Parameter	Specification	Method
Odor and Taste	Characteristic, no foreign odors	Organoleptic
Color	Yellowish-brown to dark brown	Visual
Consistency	Homogeneous viscous liquid	Visual
Moisture and Volatile Matter	≤1.0%	ISO 662
Acid Value	≤35 mg KOH/g	ISO 660
Peroxide Value	≤5 meq O ₂ /kg	ISO 3960
Acetone Insoluble Matter	60–75%	ASTM D 235
Toluene Insoluble Matter	≤0.3%	ASTM D 2158
Viscosity at 25°C	10–13 Pa·s	ASTM D 445
Density at 25°C	1.03–1.08 g/cm ³	ISO 6883
pH (1% solution)	6.0–7.5	ISO 4316

4. HEAVY METALS AND PCB SPECIFICATIONS

Parameter	Maximum Limit	Method
Lead (Pb)	≤2.0 mg/kg	ICP-MS / EN 14083
Arsenic (As)	≤1.0 mg/kg	ICP-MS / EN 14546
Mercury (Hg)	≤0.1 mg/kg	ICP-MS / EN 13806
Cadmium (Cd)	≤0.5 mg/kg	ICP-MS / EN 14083
Solvent Residues (hexane)	<10 mg/kg	Reg. EU 231/2012
PCB (Polychlorinated Biphenyls)	Not detectable (<0.1 mg/kg)	GC-MS

5. MICROBIOLOGICAL PARAMETERS

Parameter	Limit	Method
Total Aerobic Plate Count	≤3,000 cfu/g	ISO 4833
E. Coli	Absent/g	ISO 16649
Salmonella	Absent/25g	ISO 6579
Yeasts and Molds	≤100 cfu/g	ISO 21527

Parameter	Limit	Method
Enterobacteriaceae	Absent/g	ISO 21528
Listeria monocytogenes	Absent/25g	ISO 11290
Bacillus cereus	≤100 cfu/g	ISO 7932

6. PESTICIDES AND MYCOTOXINS

6.1 Mycotoxins

Parameter	Maximum Limit	Method
Aflatoxins (B1, B2, G1, G2) – Total	<4 µg/kg	LC-MS/MS
Aflatoxin B1	<2 µg/kg	LC-MS/MS
Deoxynivalenol (DON)	<750 µg/kg	LC-MS/MS
Zearalenone (ZEA)	<100 µg/kg	LC-MS/MS
Fumonisin (B1+B2)	<1000 µg/kg	LC-MS/MS
Ochratoxin A (OTA)	<3 µg/kg	LC-MS/MS

6.2 Pesticides

The product complies with Regulation (EC) 396/2005 regarding maximum residue limits for pesticides. Periodic analyses confirm that residue levels are below detection limits or in compliance with applicable MRLs.

Parameter	Limit	Reference
Glyphosate	<0.1 mg/kg	Reg. EC 396/2005
Total Pesticide Residues	Compliant with EU MRL	Reg. EC 396/2005

7. NUTRITIONAL INFORMATION

Nutritional values per 100 g product:

Parameter	Value
Energy Value	763 kcal / 3193 kJ
Total Fat	97 g
- of which Saturated Fatty Acids	15 g
- Monounsaturated Fatty Acids	20 g
- Polyunsaturated Fatty Acids	57 g
Carbohydrates	<1 g
- of which Sugars	<0.5 g
Proteins	<1 g
Salt	0 g
Phosphorus	~3000 mg
Choline	~2000 mg

8. ALLERGEN INFORMATION

In accordance with Regulation (EU) 1169/2011 on the provision of food information to consumers:

Allergen	Presence
SOY	YES – product derived from soy
Gluten (wheat, rye, barley, oats)	NO
Milk and Dairy Products	NO
Eggs	NO
Fish	NO
Crustaceans	NO
Tree Nuts (walnuts, hazelnuts, etc.)	NO
Peanuts	NO
Celery	NO
Mustard	NO
Sesame	NO
Sulfur Dioxide and Sulfites	NO
Lupin	NO
Molluscs	NO

Note: The product contains residual soy proteins (<1%). Production takes place in facilities dedicated to soy products, without risk of cross-contamination with other allergens.

9. CERTIFICATIONS AND STANDARDS

Certification	Status
FSSC 22000 / ISO 22000:2018	YES – food safety
GMP+ FSA	YES – feed safety
ISO 9001:2015	YES – quality management
Codex Alimentarius	Compliant with CAC/MISC 6-2019
Compliant with ANSVSA and EFSA	YES – food use
HALAL	NO – certification not available
KOSHER	NO – certification not available

10. NON-GMO DECLARATION

The product is manufactured from non-genetically modified soybeans (Non-GMO), in accordance with Regulations (EC) 1829/2003 and 1830/2003.

IMPORTANT: The Non-GMO declaration is made on the supplier's own responsibility, based on information and documents received from the manufacturer. Daralex Agro S.R.L. does not hold an independent Non-GMO IP (Identity Preserved) certificate. Upon request, we can provide the Non-GMO compliance declaration issued by the manufacturer.

11. PACKAGING AND STORAGE

Packaging	Metal drums, IBCs or stainless steel tanks certified for food use
Storage	Clean, dry, ventilated spaces, protected from sunlight
Storage Temperature	+5°C ... +30°C
Shelf Life	24 months from date of manufacture (sealed packaging)

12. CONTACT DETAILS

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