



## CASEUS GROUP

### Specification: De-Oiled Sunflower Lecithin

**Product:** De-oiled Sunflower Lecithin; Non-GMO; Non-Allergenic

**Certifications:** Kosher, Halal, FSSC, FDA

**Country of Manufacture/Raw Material Origin:** Ukraine, India

**Product Description:** De-oiled sunflower lecithin with high concentration of phospholipids in free-flowing powder form. It is yellowish to brown in color and is derived from clean, healthy, and well-preserved sunflower seeds (*Helianthus annuus L.*) by pressing, extraction, degumming and de-oiling process.

**Shelf Life & Storage Conditions:** 24 months from the date of manufacture. Store at ambient temperature in moisture free spaces.

**Packaging:** 20 kg boxes. MOQ 1 pallet (27 boxes/540 kg)

Sensory Parameters	Method of Analysis	Specification	Frequency
Color	Sensory test	Cream light yellow to brown	Every batch
Flavor	Sensory test	Typical	Every batch
Appearance	Sensory test	Free flowing powder	Every batch

Analytical Properties	Units of Measurement	Method of Analysis	Specification	Frequency
Acetone Insoluble (Phosphatides)	%	AOCS Ja 4-46	≥ 95	Every batch
Moisture	%	AOCS Ja 2b-37	≤ 1	Every batch
Acid Value	mg KOH/g	AOCS Ja 6-55	≤ 30	Every batch
Color Gardner	1-18	AOCS Ja 9-87	≤ 12	Every batch
Peroxide Value	meq O <sub>2</sub> /kg	AOCS Ja 8-87	≤ 5	Every batch
Hexane/Toluene Insolubles	%	AOCS Ja 3-87	≤ 0.3	Every batch

Microbiological Properties	Units of Measurement	Method of Analysis	Specification	Frequency
Total Plate Count	cfu/g	ISO 4233	≤ 3000	Every batch
Coliforms	cfu/g	ISO 4832	≤ 100	Every batch
Yeast	cfu/g	ISO 7954	≤ 100	Every batch
Mold	cfu/g	ISO 7954	≤ 100	Every batch
Enterobacteriaceae	cfu/g	ISO 21528	≤ 10	Every batch
Salmonella	Per 25 g	ISO 6579	negative	Every batch
E Coli	cfu/g	IS14397	negative	Every batch

Heavy Metals	Units of Measurement	Method of Analysis	Specification	Frequency
As (Arsenic)	mg/kg	AOAC 986.15	≤ 0.1	Twice a year
Pb (Lead)	mg/kg	AOAC 986.15	≤ 0.1	Twice a year
Hg (Mercury)	mg/kg	AOAC 988.11	≤ .05	Twice a year