

**PRODUCT DESCRIPTION**

UNILEC PC50 is pure Phosphatidyl Choline (50%) with minimum 97% phospholipids content, it is brown waxy solid derived from oil extraction of Soya seeds degumming.

**PRODUCT APPLICATION**

UNILEC PC50 is natural product and used for pharmaceutical and nutraceutical applications. The benefits of lecithin are used throughout several industries from food, confectionery and cosmetics to pharma applications.

**PRODUCT PHYSICAL & CHEMICAL ANALYSIS**

Parameter	Specification	Method of Analysis
Acetone Insoluble %	Min. 97%	AOCS Ja 4-46
Appearance	Brown Waxy Solid	Visual
Moisture %	Max 1 %	AOCS Ja 2b-37
Acid Value	Max 30 mgKOH/g	AOCS Ja 6-55
Colour	Brown	Visual
Peroxide Value	Max 5 meq O <sub>2</sub> /Kg	AOCS Ja 8-87
Toluene Insoluble	Max 0.3 %	AOCS Ja 3-87
Hexane Insoluble	Max 0.3 %	AOCS Ja 3-87
Heavy Metals ( Lead/Arsenic)	BDL	IS 5055

**PHOSPHOLIPID ANALYSIS**

Parameter	Specification	Method of Analysis
Phosphatidyl Choline (PC)	Min 50 %	31 PNMR Spectroscopy
Phosphatidyl Inositol (PI)	Max 3 %	31 PNMR Spectroscopy
Phosphatidyl Ethanolamine(PE)	Min 10 %	31 PNMR Spectroscopy
Phosphatic Acid (PA)	Max 3 %	31 PNMR Spectroscopy

**PRODUCT MICROBIOLOGICAL ANALYSIS**

Parameter	Specification	Method of Analysis
Total Plate Counts	Max 1000 cfu/g	ISO 4833
Enterobacteriaceae	< 10 cfu/g	ISO 21528-1
Coliforms	< 10 cfu/g	ISO 4832
E. Coli	Absent/g	ISO 16649
Yeast & Moulds	< 100 cfu/g	ISO 7954
Salmonellae	Absent/ 25g	ISO 6579

**REGULATIONS**

UNILEC PC50 conforms to EU regulations 1829/2003 and 1830/2003 free from GMO-declaration and conforms Commission Regulation (EU) No 231/2012 of 9 March 2012( E322) & Codex Alimentarius Lecithin (322(i) .

**SHELF LIFE**

UNILEC PC50 has minimum 18 months from the date of manufacture if retained at cool dry place in original packing away from direct sunlight, moisture and air .

Recommended Storage at cool temperature (<15 °C) .

**PACKAGING**

1 Kg, 5 Kg, 20 Kg , Primary – Aluminium bags with inert Gas, Secondary corrugated box , HDPE Carboys.