

## Certificate of Analysis

**Expiry Date:** May. 18, 2028  
**Manufacture Date:** May. 19, 2025

<b>Product Name</b>	Flaxseed Oil	<b>Batch Number</b>	20250519
<b>Botanical Source</b>	<i>Linum usitatissimum L.</i>	<b>Quantity</b>	1250 kg
<b>Plant Part Used</b>	Seeds(Dry, 100% Natural)	<b>Country of Origin</b>	China

Analysis Items	Specifications	Results	Test Methods
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Physical and Chemical			
Refractive index(20°C)	Ca.1.480	1.478	CP2020
Refractive density(20°C)	Ca.0.931	0.925	CP2020
Iodine value	160-200 g I <sub>2</sub> /100g	175g I <sub>2</sub> /100g	CP2020
Acid value	≤ 1.0 mg KOH/g	0.35mg KOH/g	CP2020
Appearance	Clear pale yellow to yellow oil	Conforms	Visual
Odor&Taste	Light odor and taste	Conforms	Organoleptic
Peroxide value	≤ 10.0 meq/kg	0.01 meq/kg	CP2020
Saponification value	188-191.0mg KOH/g	190.0mg KOH/g	CP2020
Unsaponification matter	≤ 1.5%	0.82%	CP2020
Moisture & volatiles	≤ 0.1%	Conforms	CP2020
Gardner color	≤ 5	2.9	CP2020
Cold test	Clear after 5.5 hours at 0°C	Pass	CP2020
Ingredients	C16:0 Palmitic	3.0-8.0%	CP2020
	C18:0 Stearic	2.0-8.0%	CP2020
	C18:1 Oleic	15.0-24.0%	CP2020
	C18:2 Linoleic	12.0-20.0%	CP2020
	C18:3 γ-Linolenic	55.0%	CP2020

Contaminants			
Arsenic (As)	≤ 2.0 mg/kg	Conforms	ICP-MS
Lead (Pb)	≤ 1.0 mg/kg	Conforms	ICP-MS
Mercury (Hg)	≤ 0.1 mg/kg	Conforms	ICP-MS
Cadmium(Cd)	≤ 1.0 mg/kg	Conforms	ICP-MS
Dioxins	≤ 0.75 pg/g	Conforms	Eur.Ph. <2.4.24>
Dioxins&Dioxin-like PCBs	≤ 1.25 pg/g	Conforms	Eur.Ph. <2.8.13>
Total PCBs (28, 52,101, 138, 153 et 180)	≤ 40 ng/g	Conforms	Eu. Reg 1881
Benzo(a)pyrene	≤ 2 ug/kg	Conforms	Eu. Reg 2015
Sum of B(a)P, B(a)A, B(a)F, and chrysene	≤ 10 ug/kg	Conforms	ICP-MS
Sum of B(a)P, B(a)A, B(a)F, and chrysene	≤ 1.0 ug/kg	Conforms	ICP-MS

<b>Microbiological</b>			
Total Plate Count	≤ 1,000 (cfu/g)	Conforms	GB 4789.2
Mold & Yeast	≤ 100cfu/g	Conforms	GB 4789.15
E. Coli	Absent	Conforms	GB 4789.38
Salmonella	Absent	Conforms	GB 4789.4
Staphylococcus aureus	Absent	Conforms	GB4789.10

<b>Package</b>	Packed in a polyethylene lined corrugated package, outside package is carton or fiber drum(N.W:25kgs, I.D.35×H51cm;)
<b>Storage</b>	Stored in a well-closed container at cool temperature away from direct sunlight.
<b>Shelf Life</b>	3 years if sealed and stored under the recommended conditions

Conclusion: This batch of Flaxseed Oil meets the above specification.

Analyzed by: Muhammad Sesay

Checked by: 叶平

Approved by: 祝威

