



GALILEO

ESSENTIAL OILS & MORE

SESAME

Specifications



General Specification

Product Name	Sesame Seeds (Cold Press – Egyptian – Galileo)
Botanical Name	Sesamum indicum
Botanical Family	Pedaliaceae
Description	Carrier Oil Obtained from Seeds of Sesamum indicum
Status	Organic
Manufacturer	GMS TRADE
Harvest Season	Oct - Nov

Physical Specification

Parameter	Requirement	Test Method
Appearance	Clear – colorless to pale yellow liquid	Visual
Odor	Warm – Nutty – Roasted	Organoleptic
Taste	Bitter – Herbal – Spicy	Organoleptic
Solubility	Partially soluble – Insoluble in water	Visual
Optical Rotation	-14° to -32° @ 20°C	Visual
Specific Gravity	0.915 – 0.925 @ 20°C	ASTM D4052
Refractive Index	1.465 – 1.469 @ 20°C	ASTM D1218

Fatty Acid Composition

Primary Constituents	Linoleic (C18:2 Ω-6), Oleic (C18:1 Ω-9), Stearic (C18:0)	
Parameter	Requirement %	Test Method
Linoleic (C18:2 Ω-6)	41.5 – 47.5	GC-MS
Oleic (C18:1 Ω-9)	35.9 – 42.3	GC-FID
Stearic (C18:0)	4.8 – 6.1	GC-FID
Acidity (Max.)	≤ 4.0 mg/g (as oleic acid)	GC-FID
Peroxide Value (Max.)	≤ 15 meq/kg	GC-FID
Unsaponifiable Matter	≤ 20.0%	GC-FID
Saponification	186 – 195 mg KOH/g	GC-FID
Iodine Value	104 – 112 g I ₂ /100g	GC-FID
Myristic (C14:0)	7.9 – 12%	GC-FID

Key Applications & Benefits

Property	Usage	Advantage
Primary Profile	Nutritional support - Heart health Bone & joint health	High smoke point - Unsaturated fatty acids
Skin Care Profile	Deep Moisturizing & nourishing	Vitamin E & zinc protects against UV oxidative stress
Hair Care Profile	Scalp health & dandruff Control Strengthening & growth	Bioactive compounds - Occlusive properties

