



AGRAR Srl - VIA MONTE DEL MARMO, 52 - 00166 ROME (Italy)

RAW MATERIALS for COSMETICS, NUTRACEUTICALS & PHARMACEUTICALS

PHONE: 06 / 888.17.668 (r.a.)

FAX : 06 / 888.17.672

EMAIL: agrar@agrar.it

WEB: www.agrar.it

Roma, 03/04/2023

Batch 33/18/23

Net weight KG 23.

ASSAY CERTIFICATE & specifications

WHEAT GERM OIL "refined"

(Triticum vulgare)

cold-pressed without solvents, for cosmetic use

INCI name	TRITICUM VULGARE GERM OIL	
CTFA name	Wheat Germ Oil	
CAS	68917-73-7 / 8006-95-9	
EINECS	- / 291-063-5	
Description	light yellow clear liquid, of slight odor and taste, obtained by cold-pressure without solvents; it is then mechanically filtered and discolored; does not contain antioxidants or additives	
Solubility	insoluble in water; soluble in oils and fats; partially soluble in alcohol	
	Values	Specifications
Identification & Purity	conforms	conforms
Color (Lovibond)	conforms	$\leq 70Y, \leq 4.0R$
Color (Gardner)	conforms	about 5
Turbidity Point	conforms	circa 8 – 10 $^{\circ}C$
Iodine Value (g I ₂ /100 g)	128.4	120 – 135
Saponification Value (mg KOH/g)	195.5	186 – 195
Peroxides Value (meq O ₂ /kg)	0.8	≤ 5 (when drumming in factory)
Acid Value (mg KOH/g)	0.09	≤ 1.0
Unsaponifiables	1.8	1 – 2 %
Refractive Index at 25 $^{\circ}C$	conforms	1.472 – 1.476
Density at 25 $^{\circ}C$ (g/ml)	0.920	0.917 – 0.924
Medium Fatty Acids composition (GC):		
Palmitic Acid (esadecanoic)	conforms	C-16:0 = 11.0 – 14.0 %
Palmitoleic Acid (cis-9-esadecenoic)	conforms	C-16:1 = 0.1 – 2.0 %
Stearic Acid (ottadecanoic)	conforms	C-18:0 = 0.5 – 2.0 %
Oleic Acid (cis-9-ottadecenoic)	conforms	C-18:1 = 20.0 – 29.0 %
Linoleic Acid (9,12-ottadecadienoic)	conforms	C-18:2 = 50.0 – 60.0 %
alpha-Linolenic Acid (9,12,15-		

ottadecatrienoic)	conforms	C-18:3 = 1.5 – 5.0 %
Arachidic Acid (eicosanoic)	conforms	C-20:0 = 0.1 – 0.5 %
Gadoleic Acid (cis-9-eicosenoic)	conforms	C-20:1 = 0.3 – 0.8 %
Behenic Acid (docosanoic)	conforms	C-22:0 = 0.2 – 0.6 %
Foreign Oils	absent	absent
Heavy Metals	conforms	<= 10 ppm
Residual Solvents	absent	not used
Pesticides	conforms	conforms to EP & Dir. 2008/839/CE
Total Bacterial Count	conforms	< 10 cfu/g (anhydrous product)
Molds & Yeasts	conforms	< 10 cfu/g (anhydrous product)
Pathogens	absent	absent
Shelf Life	2 years from production date: keep in well-sealed containers with little air inside, in a cool and dry place, avoiding direct light	
Declarations	<p>REACH conforming (not applicable to natural products not obtained by synthesis); Suitable for KOSHER & HALAL (but without their certifications); Suitable for VEGANS & VEGETARIANS (but without certifications); BSE/TSE not applicable = NON ANIMAL ORIGIN; Does NOT contain ALCOHOL; Does NOT contain ALLERGENS for cosmetics or foods; NOT ANIMAL tested (Dir. 1223/2009/CE); Does NOT contain CMR substances; Does NOT contain COLORS, PRESERVATIVES, ANTIOXIDANTS or CHELATING AGENTS; Does NOT contain CONTAMINANTS (Dir. 1881/2006/CE & Dir. 629/2008/CE); Does NOT contain COSMETIC forbidden substances; Does NOT contain DIOXANE; Does NOT contain DOPING agents; Does NOT contain ENDOCRIN DISRUPTORS; Does NOT contain ETHYLENE OXIDE; Does NOT contain FORMALDEHYDE; Does NOT contain GLUTEN; Does NOT contain GMO materials; NOT IRRADIATED (gamma rays); Does NOT contain LACTOSE; Does NOT contain LATEX; Does NOT contain MELAMINE; Does NOT contain MICROBEADS or MICROPLASTICS; Does NOT contain NANOMATERIALS; Does NOT contain NITRATES, NITRITES or NITROSAMINES; Does NOT contain PALM OIL; Does NOT contain PARABENS; Does NOT contain PEG/PPG; Does NOT contain PETROLEUM or PETROLATUM derivatives; Does NOT contain PHTALATES; Does NOT contain POLYCYCLIC AROMATIC HYDROCARBONS; Does NOT contain SILICONS; Does NOT contain SLS/SLES; Does NOT contain residual SOLVENTS; Does NOT contain SVHC substances; Does NOT contain WADA substances (World Anti-Doping Agency); Does NOT contain SUBSTANCES of the attachment III-bis of the Dir. 68/2007/CE and it is conforming to Dir. 1223/2009/CE & 831/2019/CE.</p>	
Production Date	October 2022	
Re-Test Date	October 2025	
Electronically generated document, valid without signature and conforming to the original	AGRAR Srl <i>Dr. Paolo Marton</i>	