

## CERTIFICATE OF ANALYSIS

<b>PRODUCT NAME (UE)</b>	<b>ARGAN OIL ORGANIC COSMETIC DEODORIZED</b>
<b>PRODUCT NAME (ITA)</b>	<b>OLIO DI ARGAN COSMETICO BIOLOGICO DEODORATO</b>
<b>INCI NAME (EU)</b>	<b>ARGANIA SPINOSA KERNEL OIL</b>
<b>INCI NAME (US)</b>	<b>ARGANIA SPINOSA KERNEL OIL</b>
<b>CAS NUMBER</b>	<b>223747-87-3</b>
<b>EINECS NUMBER</b>	<b>Unknown</b>
<b>PRODUCTION DATE</b>	<b>08/2014</b>
<b>BATCH NUMBER</b>	<b>0087H14/01</b>

	U.M.	Test methods	Range	Analytical results
Physical status at 25C°		Visual	Liquid	Conform
Acid value	mgKOH/g	AOCS Cd3d-63	≤2.0	0.16
Iodine value	gI <sub>2</sub> /100	AOCS Tg2a-64	90.0 – 105.0	97.8
Peroxide value	meq O <sub>2</sub> /Kg	AOCS Cd8-53	≤10.0	0.30
Density at 20C°	g/cc	ASTM D1298-85	0.905 – 0.920	0.916
Colour		Visual	Yellow-Redish	Conform

### Fatty acids composition %(GLC):

Myristic acid	C14:0	≤0.2	0.14
Palmitic acid	C16:0	12 – 16	12.77
Stearic acid	C18:0	3.5 – 6.5	5.46
Oleic acid	C18:1	43 – 50	46.76
Linoleic acid	C18:2	30 – 36	33.89
Alpha-Linolenic acid	C18:3	≤0.5	0.10
Arachidic acid	C20:0	≤0.5	0.34
Eicosenoic acid	C20:1	≤0.5	0.42
Behenic acid	C22:0	≤0.3	0.11
Others		≤0.05	Tr.

*Special advise for storage conditions: The product must kept into the original packages, protected from moisture, properly closed under cover. Storage temperature between 10 to max 22°C. The min shelf life is 12 month and the max shelf life is 24 month – Effect of temperature <10°C partially solidification of the saturated fatty acids and of the natural fraction that are added into the product. Effect of temperature >40°C possible autoxidation and peroxide value increases*

**Parodi Nutra s.r.l.** Manufacturer of botanical oils and butters

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Azienda Biologica Controllata e Certificata da : CCPB srl