

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Birch Leaf Infused Oil
<b>Product Code</b>	AL00513
<b>Botanical Name</b>	Betula Alba
<b>Carrier Oil</b>	Helianthus Annuus Seed Oil, Prunus Amygdalus Dulcis Oil
<b>Plant Part Used</b>	Leaf
<b>Extraction Method</b>	Cold Maceration
<b>Lot Number</b>	ALU160525/037
<b>Manufacture Date</b>	05/2025
<b>Re-test Date</b>	05/2027

### PHYSICO-CHEMICAL CHARACTERISTICS

Analytical Tests	Specification	Result
<b>Appearance</b>	Greenish	Conforms
<b>Odor</b>	Characteristic	Conforms
<b>pH (5% solution)</b>	4.0 - 6.5 at 25°C	Conforms
<b>Refractive Index</b>	1.470 - 1.480 at 25°C	Conforms
<b>Solubility</b>	Soluble in oils	Conforms
<b>Specific Gravity</b>	0.90 - 0.95 at 20°C [g/cm <sup>3</sup> ]	Conforms
<b>Arsenic content (As)</b>	3 max. [mg/kg]	< 0.50
<b>Cadmium content (Cd)</b>	3 max. [mg/kg]	< 0.50
<b>Lead content (Pb)</b>	10 max. [mg/kg]	< 0.50
<b>Nickel content (Ni)</b>	10 max. [mg/kg]	< 0.50
<b>Mercury content (Hg)</b>	1 max. [mg/kg]	< 0.01
<b>Organochlorine pesticides</b>	1 max. [mg/kg]	< LOQ *

\*LOQ indicates that the concentration of the substance in the sample is below the limit of quantification and therefore cannot be reliably measured with sufficient accuracy and precision.

### LIST OF ANALYZED PESTICIDES (LOQ [mg/kg])

Parameter (LOQ)	Parameter (LOQ)	Parameter (LOQ)
alpha HCH (0.01)	aldrin (0.01)	endrin aldehyde (0.01)
beta HCH (0.01)	dieldrin (0.01)	endrin ketone (0.01)
delta HCH (0.01)	endosulfan I (0.01)	p,p' DDT (0.01)
gamma HCH – lindane (0.01)	endosulfan II (0.01)	p,p' DDD (0.01)
heptachlor (0.005)	endosulfan sulphate (0.01)	p,p' DDE (0.01)
heptachlor epoxide (0.01)	endrin (0.01)	methoxychlor (0.01)

**Disclaimer:** The details provided here are specific to the identified material and may not remain accurate if that material is combined with other substances or used in different processes. The information presented is, to the best of the company's knowledge, considered precise and trustworthy as of the date mentioned. However, the company does not make any explicit or implied assurance, guarantee, or claim regarding the information's precision, trustworthiness, or comprehensiveness, and will not be held accountable for any losses, damages, or costs, whether direct or indirect, that arise from its use. Users are encouraged to independently verify the appropriateness and thoroughness of this information for their specific purposes.

## CERTIFICATE OF ANALYSIS

### MICROBIOLOGICAL ANALYSIS

Parameter	Ref. value [Unit]	Result
<b>Total aerobic mesophilic microorganisms (bacteria + yeasts and molds)</b>	< 10 <sup>3</sup> [cfu/g]	< 10
<b>Aerobic mesophilic bacteria count</b>	/ [cfu/g]	< 10
<b>Yeast and mold count</b>	/ [cfu/g]	< 10
<b>Escherichia coli</b>	Absence [cfu/g]	Absent
<b>Pseudomonas aeruginosa</b>	Absence [cfu/g]	Absent
<b>Staphylococcus aureus</b>	Absence [cfu/g]	Absent
<b>Candida albicans</b>	Absence [cfu/g]	Absent

### FATTY ACID COMPOSITION

Fatty Acid / Group	Result (g/100g)
<b>C14:0 (Myristic acid)</b>	0.07
<b>C16:0 (Palmitic acid)</b>	6.22
<b>C18:0 (Stearic acid)</b>	3.00
<b>C18:1-cis-9 (Oleic acid)</b>	36.93
<b>C18:2-cis-9,12 (Linoleic acid)</b>	51.94
<b>C18:3-cis-6,9,12 (Gamma-Linolenic acid)</b>	0.14
<b>C20:5 (EPA)</b>	< 0.05
<b>C22:6 (DHA)</b>	< 0.05
<b>Total saturated fatty acids</b>	10.68
<b>Total monounsaturated fatty acids</b>	36.93
<b>Total polyunsaturated fatty acids</b>	52.00
<b>Total trans-fatty acids</b>	0.27

### STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight.  
 When stored for a period longer than the one specified above, quality should be checked before use.

**As it is electronically generated document, hence no signature required**

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