

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Milk Thistle Fruit
<b>Botanical Latin Name</b>	Silybum marianum L.
<b>Part of Plant</b>	Fruits
<b>Fraction</b>	Whole
<b>Batch Number</b>	V/K-1
<b>Batch Weight</b>	21,000.000 kg
<b>Crop</b>	Jan 2025
<b>Shelf Life</b>	Jan 2029
<b>Net Weight (per bag)</b>	25.000 kg

### Physical & Chemical Characteristics

Analysis Item	Specification	Result
Colour	From black till light brown	Complies
Odour	No rancid odour	Complies
Flavour	The flavour is weak, slightly bitter	Complies
Moisture content, mass fraction	Not more than 8.0 %	7.36 %
Total ash, mass fraction	Not more than 8.0 %	6.92 %
Acid insoluble ash, mass fraction	Not more than 4.0 %	1.14 %
Extraneous matter (mineral) content	Not more than 0.5 %	0.00 %
Extraneous matter (organic) content	Not more than 0.5 %	0.12 %
Silymarin, expressed as silybin	Not less than 1.5 %	1.58 %

**Heavy Metals**

Analysis Item	Specification	Result
Mercury (Hg)	Not more than 0.1 mg/kg	Complies
Lead (Pb)	Not more than 5.0 mg/kg	Complies
Cadmium (Cd)	Not more than 1.0 mg/kg	Complies
Arsenic (As)	Not more than 0.5 mg/kg	Complies

**Polycyclic Aromatic Hydrocarbons (PAHs)**

Analysis Item	Specification	Result
Benzopyrene	Not more than 10 µg/kg	Complies
Sum of benzopyrene, chrysene, benzoanthracene, benzo[a]fluoranthene	Not more than 50 µg/kg	Complies

**Mycotoxins**

Analysis Item	Specification	Result
Ochratoxin A	Not more than 10 µg/kg	Complies
Aflatoxin B1	Not more than 2 µg/kg	Complies
Aflatoxins B1, B2, G1 & G2	Not more than 4 µg/kg	Complies

**Plant Toxins**

Analysis Item	Specification	Result
TA (tropane alkaloids)	Not more than 25 µg/kg	Complies
PA (pyrrolizidine alkaloids)	Not more than 200 µg/kg	Complies

**Perchlorate**

Analysis Item	Specification	Result
Perchlorate	Not more than 75 µg/kg	Complies

**Pesticides**

Analysis Item	Specification	Result
Pesticide residues	Limits comply with Regulation (EC) No. 396/2005 and amendments	Complies

### Radionuclides

Analysis Item	Specification	Result
Cesium Cs-137	Not more than 400 Bq/kg	Complies
Strontium Sr-90	Not more than 200 Bq/kg	Complies

### Microbiological Tests

Analysis Item	Specification	Result
Total aerobic microbial count	10 <sup>7</sup> max CFU/g	10 <sup>6</sup> max
Salmonella	Negative in 25 g	Negative in 25 g
Yeasts and moulds	10 <sup>6</sup> max CFU/g	10 <sup>4</sup> max
E. coli	10 <sup>1</sup> max CFU/g	<10 max

### Allergen Information

Product does not contain any ingredient or additive listed in Annex II (Regulation EU 1169/2011) "Substances or products causing allergies or intolerances". x- if contain

Allergen	Contain
Cereals containing gluten (wheat, rye, barley, oat, spelt, kamut or hybrids) and their products	<input type="checkbox"/>
Crustaceans and their products	<input type="checkbox"/>
Egg and egg products	<input type="checkbox"/>
Fish and fish products	<input type="checkbox"/>
Peanut and peanut products	<input type="checkbox"/>
Soya and soya products	<input type="checkbox"/>
Milk and dairy products (incl. lactose)	<input type="checkbox"/>
Nuts (almonds, hazelnut, walnut, cashew nut, pecan, para nut, pistachio, macadamia nut, Queensland nut) and products	<input type="checkbox"/>
Celery and products	<input type="checkbox"/>
Mustard and products	<input type="checkbox"/>
Sesame and products	<input type="checkbox"/>
Sulphites and sulfur dioxide >10 mg/kg or >10 mg/L as SO <sub>2</sub>	<input type="checkbox"/>

Lupin and lupin products	<input type="checkbox"/>
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<b>Impurities</b>	Product is free from metallic, magnetic, adulterants, wood, glass particles, sand
<b>Infestation</b>	Product is free from living insects, and practically free from moulds, dead insects, insect fragments and rodent contamination
<b>GMO statement</b>	Product does not contain and it is not made from genetically modified organisms (GMO) in accordance with Regulation (EC) 1829/2003
<b>ETO</b>	Product was not being treated by ethylene oxide according to requirements of Regulation (EC) No 396/2005 and (EU) 2020/1540
<b>Nanomaterials</b>	Product does not contain nanomaterials in accordance with EU regulation in European Chemicals Law (REACH) 2018/1881 and EFSA guidance
<b>Treatment</b>	Product was not being treated with ionizing radiation in accordance with Directive 1999/3/EC
<b>Fumigation</b>	Only phosphine allows for fumigation treatment