

CERTIFICATE OF ANALYSIS

Product Name	Dried Aronia Berry
Botanical Latin Name	Aronia melanocarpa (Michx.) Elliott
Also known as	Black Chokeberry — Fruit (Dried)
Country of Origin	Ukraine
Part of Plant	Berries (fruit)
Fraction	Whole
Batch Number	4153-0924
Crop	Sep 2024
Shelf Life	Sep 2028

Organoleptic specification

Analysis Item	Specification	Result
Colour	Dark black-blue fruits	Complies
Odour	Weak	Complies
Flavour	Sour-sweet, slightly astringent	Complies

Physical and chemical requirements

Analysis Item	Specification	Result
Moisture content, m/m	NMT 17.0% (EP 11.0 2.2.32)	9.14%
Total ash, m/m	NMT 3.0% (EP 11.0 2.4.16)	1.14%
Acid insoluble ash, m/m	NMT 0.5% (EP 11.0 2.8.1)	0.05%
Foreign matter (other parts of plant) content, m/m	NMT 0.5% (EP 11.0 2.8.2)	0.01%
Foreign matter (unripe fruits) content, m/m	NMT 1.0% (EP 11.0 2.8.2)	0.29%
Foreign matter (organic) content, m/m	NMT 2.0% (EP 11.0 2.8.2)	0.0%
Foreign matter (mineral) content, m/m	NMT 0.5% (EP 11.0 2.8.2)	0.0%

Contaminants

Analysis Item	Specification	Result
Mercury (Hg)	NMT 0.1 mg/kg (EP 11.0 monogr. 1433; EP 11.0 2.4.27)	Complies
Lead (Pb)	NMT 5.0 mg/kg (EP 11.0 monogr. 1433; EP 11.0 2.4.27)	Complies
Cadmium (Cd)	NMT 1.0 mg/kg (EP 11.0 monogr. 1433; EP 11.0 2.4.27)	Complies
Arsenic (As)	NMT 0.5 mg/kg (QΦC.1.5.3.0009.15)	Complies
PAH: Benzopyrene	NMT 10 µg/kg (Reg. (EU) 2023/915; GC-MS)	Complies
Sum of PAH4	NMT 50 µg/kg (Reg. (EU) 2023/915; GC-MS)	Complies
Ochratoxin A	NMT 10 µg/kg (Reg. (EU) 2023/915; EP 11.0 2.8.22)	Complies
Aflatoxin B1	NMT 2 µg/kg (Reg. (EU) 2023/915; EP 11.0 2.8.18)	Complies
Aflatoxins (B1, B2, G1 & G2)	NMT 4 µg/kg (Reg. (EU) 2023/915; EP 11.0 2.8.18)	Complies
TA (tropane alkaloids)	NMT 25 µg/kg (Reg. (EU) 2023/915; LC-MS/MS)	Complies
PA (pyrrolizidine alkaloids)	NMT 200 µg/kg (Reg. (EU) 2023/915; EP 11.0 2.8.26)	Complies
Perchlorate	NMT 75 µg/kg (Reg. (EU) 2023/915; LC-MS/MS)	Complies
Pesticides	Limits comply with Reg. (EC) No 396/2005 (+ amendments)	Complies
Cesium Cs-137	NMT 400 Bq/kg (Euratom 2016/52; QΦC.1.5.3.00011.15)	Complies
Strontium Sr-90	NMT 200 Bq/kg (Euratom 2016/52; QΦC.1.5.3.00011.15)	Complies

Microbiological parameters

Analysis Item	Specification	Result
Total aerobic microbial count, CFU/g	10 ⁷ max (EP 11.0 5.1.8; EP 11.0 2.6.12)	10 ⁶
Salmonella	Negative in 25 g (EP 11.0 5.1.8; EP 11.0 2.6.31)	Negative in 25 g

Yeasts & moulds, CFU/g	10 ³ max (EP 11.0 5.1.8; EP 11.0 2.6.12)	10 ⁴
E. coli, CFU/g	10 ² max (EP 11.0 5.1.8; EP 11.0 2.6.31)	< 10

Nutritional values

Nutrient	Per 100 g
Energy	1109 kJ / 265 kcal
Fat	1.5 g
of which saturated fatty acids	0.32 g
Carbohydrates	60 g
of which sugars	28 g
Fibres	10 g
Protein	2.5 g
Salt (calculated from Na)	< 10 mg

Statements

Impurities	Product is free from metallic, magnetic adulterants, wood, glass particles, sand.
Infestation	Product is free from living insects; practically free from moulds, dead insects, insect fragments and rodent contamination.
GMO statement	Does not contain and is not made from GMOs (Reg. (EC) 1829/2003).
ETO	Not treated with ethylene oxide (Reg. (EC) No 396/2005; EU 2020/1540).
Nanomaterials	Does not contain nanomaterials in accordance with REACH 2018/1881 and EFSA guidance.
Treatment	Not treated with ionizing radiation (Directive 1999/3/EC).
Fumigation	Only phosphine allowed for fumigation treatment.

Grade	Food use
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