

CERTIFICATE OF ANALYSIS

QUALITY CERTIFICATE No. 20260202/39633					
Product	SEA BUCKTHORN BERRY				
Fraction:	whole	Batch number:	4443-1025	Part of plant:	berries
Shelf life:	Oct 2028	Packing:	PP bags	Crop:	Oct 2025
Product description	Dried ripe berries of <i>Hippophae rhamnoides</i> Mill.				

Organoleptic specification	
Colour	The colour of berries is yellow gold, yellow orange, orange, brown
Odour	The odour is specific, pine-apple, characteristic
Flavour	The flavour is sour, slightly bitter

Physical and chemical requirements			
Parameter	Limit	Reference test method	Results
Moisture content, m/m	not more than 10.0 %	EP 11.0 2.2.32	5.59 %
Total ash, m/m	not more than 5.0 %	EP 11.0 2.4.16	1.11 %
Ascorbic acid content, m/m	not less than 0.2 %	EP 11.0 01/2019:1510	0.09 %
Foreign matter (leaves, stems) content, m/m	not more than 1.0 %	EP 11.0 2.8.2	0.64 %
Foreign matter (organic) content, m/m	not more than 0.5 %	EP 11.0 2.8.2	0.00 %
Foreign matter (mineral) content, m/m	not more than 0.1 %	EP 11.0 2.8.2	0.00 %
Fat oil content, v/m	not less than 6%	ISO 659:2009	8.85 %
Sum of carotenoids expressed as β -carotene, m/m	not less than 40 mg/100 g	EN 12823-2 : 2000	48.54 mg/100 g

Contaminants		
Heavy metals		

Parameter	Limit	Regulation and Reference test method
Mercury (Hg)	not more than 0.1 mg/kg	Product complies with EP 11, monograph 1433, EP 11.0 2.4.27
Lead (Pb)	not more than 5.0 mg/kg	Product complies with EP 11, monograph 1433, EP 11.0 2.4.27
Cadmium (Cd)	not more than 1.0 mg/kg	Product complies with EP 11, monograph 1433, EP 11.0 2.4.27
Arsenic (As)	not more than 0.5 mg/kg	Product complies with OΦC.1.5.3.0009.15

Polycyclic aromatic hydrocarbons (PAHs)		
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Benzopyrene	not more than 10 µg/kg	Product complies with Regulation (EC) No.2023/915 GC-MS
PAHs: Sum of benzopyrene, chrysene, benzanthracene, benzofluoranthene	not more than 50 µg/kg	Product complies with Regulation (EC) No.2023/915 GC-MS
Mycotoxins		
Ochratoxin A	not more than 10 µg/kg	Product complies with Regulation (EC) No.2023/915; EP 11.0 2.8.22
Aflatoxin B1	not more than 2 µg/kg	Product complies with EP 11, monograph 1433; EP 11.0 2.8.18
Aflatoxins B1, B2, G1 & G2	not more than 4 µg/kg	Product complies with EP 11, monograph 1433; EP 11.0 2.8.18
Plant toxins		
TA (tropane alkaloids)	not more than 25 µg/kg	Product complies with Regulation (EC) No.2023/915 LC-MS/MS
PA (pyrrolizidine alkaloids)	not more than 200 µg/kg	Product complies with Regulation (EC) No.2023/915 EP 11.0 2.8.26
Perchlorate		

Perchlorate	not more than 0.75 mg/kg	Product complies with Regulation (EC) No.2023/915 LC-MS/MS	
Pesticides			
Pesticides	Limits comply with Regulation (EC) No. 396/2005 and next amendments; EP 11.0 2.8.13; LC-MS/MS; GC-MS/MS		
Radionuclides			
Cesium Cs-137	not more than 400 Bq/kg	Product complies with COUNCIL REGULATION (Euratom) 2016/52; OΦC.1.5.3.0001.15	
Strontium Sr-90	not more than 200 Bq/kg	Product complies with COUNCIL REGULATION (Euratom) 2016/52; OΦC.1.5.3.0001.15	
Impurities		Product is free from metallic, magnetic, adulterants, wood, glass particles, sand	
Infestation		Product is free from living insects, and practically free from moulds, dead insects, insects fragments and rodent contamination	
GMO statement		Product does not contain and it is not made from genetically modified organisms (GMO) in accordance with Regulation (EC) 1829/2003	
ETO		Product was not being treated by ethylene oxide according to the requirements of the Regulation (EC) No 396/2005 and (EU) 2020/1540	
Nanomaterials		Product does not contain nanomaterials in accordance with EU regulation in European Chemicals Law (REACH) 2018/1881 and guidance of The European Food Safety Authority (EFSA).	
Treatment		Product was not being treated with ionizing radiation in accordance with Directive 1999/3/EC	
Fumigation		Only phosphine allows for fumigation treatment	
Microbiological parameters	Limits	Regulation and test method	Results

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 and moulds, cfu/g	10 ⁵ max	EP 11.0 5.1.8; EP 11.0 2.6.12	10 ⁴
E. coli, cfu/1g	10 ³ max	EP 11.0 5.1.8; EP 11.0 2.6.31	<10
Nutritional values		Calculated per 100 g	
Energetic value (kJ/kcal)		1952 kJ/467 kcal	
Fat (g)		16.4	
of which saturated fatty acids (g)		13.8	
Carbohydrates (g)		58.5	
of which sugars (g)		2.3	
Fibers (g)		22.6	
Protein (g)		10	
Salt (calculated from Na) (mg)		12	
Allergen information			
Product does not contain any ingredient or additive listed in the Annex II - Regulation EU 1169/2011 "Substances or products causing allergies or intolerances"		☒	
Allergens	contain	may contain traces	
Cereals containing gluten (wheat, rye, barley, oat, spelt, kamut or hybrids) and their products	☐	☐	
Crustaceans and their products	☐	☐	
Egg and egg products	☐	☐	
Fish and fish products	☐	☐	
Peanut and peanut products	☐	☐	
Soya and soya products	☐	☐	
Milk and dairy products (incl. lactose)	☐	☐	
Nuts (almonds, hazelnut, walnut, cashew nut, pecan, para nut, pistachio, macadamia nut, queensland nut) and products	☐	☐	
Celery and celery products	☐	☐	
Mustard and mustard products	☐	☐	
Sesame and sesame products	☐	☐	