



## Product Specifications

### Elderberry Powder 1% (*Sambucus nigra*)

**Product Code:** B0120261

**Product Description:** Pure elderberry (*Sambucus nigra*) juice concentrate; spray-dried with maltodextrin as an excipient

#### Product Properties

Color	Violet-red
Appearance	Powder, uniform particles, hygroscopic
Taste	Characteristic of elderberry
Odor	Characteristic of elderberry
Mesh size	> 98% through 60 mesh (< 250 µm)
Excipient	Organic maltodextrin (organic, corn-based)
Solubility	Soluble in water and water/alcohol mixtures
Fruit equivalence	5:1
Identity	HPLC anthocyanin profile unique to elderberry
Plant part used	Berries (fruit)

#### Analytical Values

		Spec.
Anthocyanins ( <i>Expr. as cyanidin-3-glucoside; pH-Diff.</i> )	1.00 – 1.45	g/100 g
Anthocyanins ( <i>Expr. as cyanidin-3-glucoside; HPLC</i> )	0.95 – 1.35	
Polyphenols ( <i>Expr. as catechin; Folin-Ciocalteu</i> )	2.00 – 4.80	g/100 g
Polyphenols ( <i>Expr. as gallic acid equivalent; Folin-Ciocalteu</i> )	1.80 – 4.60	g/100 g
Moisture ( <i>Loss on drying; 105° C; 30 sec.</i> )	2.0 – 8.0	%
Total acidity ( <i>Expr. as citric acid; anhydr.; pH 8.1</i> )	2.70 – 4.30	g/100 g
Color units ( <i>E 100%; 510 nm; pH 1.0</i> )	750 – 950	

#### Heavy Metals and Pesticides

		Spec.
Lead ( <i>ICP-MS</i> )	< 1.0	ppm
Arsenic ( <i>ICP-MS</i> )	< 0.5	ppm
Cadmium ( <i>ICP-MS</i> )	< 0.3	ppm
Mercury ( <i>ICP-MS</i> )	< 0.05	ppm
Pesticides	The processed fruit conforms to the pesticide standards defined in the FDA and EPA regulations.	

#### Microbiological Values

		Spec.
Yeast ( <i>Sabouraud Agar, 28°C, 5 d</i> )	< 20	CFU/g
Molds ( <i>Sabouraud Agar, 28°C, 5 d</i> )	< 20	CFU/g
Total plate count ( <i>ISO 4833</i> )	< 3,000	CFU/g
<i>E. coli</i> ( <i>COLI ID Agar, 37°C, 24 h</i> )	0	CFU/g
<i>Salmonella</i> ( <i>ISO 6579</i> )	Absent	/25 g

**Country of Origin:** Italy (manufacturing), Austria (raw materials)

**Packaging:** Packed in an aluminum bag in a corrugated box or plastic pail, 10 kg net

**Storage:** The product must be stored in a dark, cool, and dry area. Keep the package well-sealed since the product is hygroscopic.

Color may change at the end of shelf life.

**Best Used By:** 36 months after production date under proper storage conditions

Quality Control

The information contained herein is, to the best of our knowledge, correct. The data outlined and the statements made are intended only as a source of information. No warranties, expressed or implied, are made. On the basis of this information, it is suggested that you evaluate the product on a laboratory scale prior to use in a finished product.