



Product Specifications
Standardized Elderberry Powder, 6.5%
(Sambucus nigra)
 Country of Origin: Italy



ARTEMIS
 INTERNATIONAL, INC.
 From Field To Function™

Product Code: 70120169 (Previously 70120053)
Date: January 2014

Product Description: Pure elderberry (*Sambucus nigra*) extract; processed without solvent via physical membrane separation and spray-dried with maltodextrin as an excipient; standardized to a minimum anthocyanin content of 6.5%

Product Properties

Color	Intensely dark red
Appearance	Powder, uniform particles, hygroscopic
Taste	Characteristic of elderberry; astringent
Odor	Characteristic of elderberry
Mesh size	> 98% through 60 mesh (< 250 µm)
Excipient	Maltodextrin (GMO-free, corn-based)
Solubility	Soluble in water and water/alcohol mixtures
Extract ratio	36:1
Identity	HPLC anthocyanin profile unique to elderberry
Plant part used	Berries (juice)

Analytical Values

Spec.

Anthocyanins (<i>Expr. as cyanidin-3-glucoside; pH-Diff.</i>)	6.80 – 8.80	g/100 g
Anthocyanins (<i>Expr. as cyanidin-3-glucoside; HPLC</i>)	6.50 – 8.10	g/100 g
Polyphenols (<i>Expr. as catechin; Folin-Ciocalteu</i>)	8.40 – 15.40	g/100 g
Color units (<i>E 100%; 510 nm; pH 1.0</i>)	5,000 – 5,600	
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>)	5.50 – 9.50	g/100 g

Heavy Metals and Pesticides

Spec.

Lead (<i>ICP-MS</i>)	≤ 0.3	ppm
Arsenic (<i>ICP-MS</i>)	< 0.5	ppm
Cadmium (<i>ICP-MS</i>)	< 1	ppm
Mercury (<i>ICP-MS</i>)	< 0.1	ppm
Pesticides	Pesticide standards defined in the EC Regulations n. 396/2005, n. 149/2008, and n. 839/2008	

Microbiological Values

Spec.

Yeast	< 20	CFU/g
Molds	< 20	CFU/g
Total plate count	< 10,000	CFU/g
<i>E. coli</i>	Negative	CFU/g
<i>Salmonella</i>	Negative	CFU/25 g

Packaging: Packed in pails of 6 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

Melanie Bush

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.