



ARTEMIS
INTERNATIONAL, INC.
From Field To Function™

PRODUCT BULLETIN

Standardized Elderberry Powder, 13% NOP Organic

Product code: 70120148

Date: May 2011

Product Information: Pure elderberry, *Sambucus nigra*, concentrated without solvent by physical process only. Spray dried onto excipient. Standardized to a minimum of 13 g/100 g anthocyanin.

Physical Values:

Color	intensely dark red
Appearance	powder, uniform particles, hygroscopic
Taste	nearly neutral, acidic
Excipient	organic maltodextrin < 18%
Mesh size	max. 210 micron (70 mesh) - min. 98%
Solubility	soluble in water and water/alcohol mixtures
Moisture	≤ 8%
Ratio	64:1

Chemical Values:

Anthocyanin, expr. as cyanidin-3-glucoside (HPLC)	≥ 13	g/100 g
Anthocyanin, expr. as cyanidin-3-glucoside (pH-Diff.)	≥ 13.5	g/100 g
Color Units (<i>abs x dil. 510 nm, pH 1.0</i>)	10,000 – 12,000	
Acidity (exp. As Citric Acid (anhydr – pH 8.1))	9 – 19	g/100g
Polyphenols, expr. as catechin (<i>Folin-Ciocalteu</i>)	18 – 28	g CE/100 g

Microbiological Values:

Yeast	≤ 20	CFU/g
Mold	≤ 20	CFU/g
Total Plate Count	≤ 3,000	CFU/g
<i>E. coli</i>	Negative	CFU/g

Packaging: Packed in PE bags inside of 4 kg PE pails

Storage: Keep the product well sealed and store in a cool, dry area. Moisture absorption may cause changes in chemical values.

Best Used By: 36 months after production

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 this information, it is suggest that you evaluate the product on a laboratory scale prior to use in a finished product.