



ARTEMIS
INTERNATIONAL, INC.
The Natural Selection

PRODUCT BULLETIN

Standardized Elderberry Powder, 6.5%

Product code: 70120053 (previously 74280000)
Date: September 2006 (supercedes January 2005)

Product Information: Pure elderberry, *Sambucus nigra*, concentrated without solvent by physical process only. Spray dried onto excipient. Standardized to a minimum of 6.5 g/100 g anthocyanin.

Physical Values:

Color	intensely dark red, almost black
Appearance	powder, uniform particles, hygroscopic
Taste	nearly neutral, acidic
Excipient	Maltodextrin < 50%
Mesh size	max. 210 micron (<i>70 mesh</i>) - min. 98%
Solubility	soluble in water and water/alcohol mixtures
Moisture	≤ 5%

Chemical Values:

Anthocyanin, expr. as cyanidin-3-glucoside (<i>HPLC</i>)	≥ 6.5	g/100 g
Anthocyanin, expr. as cyanidin-3-glucoside (<i>pH-Diff.</i>)	≥ 6.8	g/100 g
Color Units (<i>abs x dil. 510 nm, pH 1.0</i>)	5,000 – 5,600	
Polyphenols, expr. as catechins (<i>Folin-Ciocalteu</i>)	8.4 – 15.4	g CE/100 g

Microbiological Values:

Yeast	≤ 100	CFU/g
Mold	≤ 100	CFU/g
Total Plate Count	≤ 10,000	CFU/g
<i>E. coli</i>	Negative	CFU/g

Packaging: Packed in PE bags inside of 6 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.