



# Organic Whole Plant Blueberry Dog~Tea

## Anthocyanin Analysis For Pet Bistro® Dog~Tea

Results indicate that dehydrated leather and leaves contain a greater amount of anthocyanins than fresh organic blueberries. These results are expected since dehydration concentrates anthocyanins; therefore, this tea provides more antioxidants on a per gram basis than organic lowbush blueberries. Composed of leaves and leather, this tea contains 3.77 mg c3g/g compared to 2.39 mg c3g/g from organic lowbush blueberries. Additionally, results support the harvesting of crimson blueberry leaves of fall which contribute significantly to the anthocyanin content of this tea.

The monomeric anthocyanin content was estimated using the pH differential method as described by Giusti and Wrolstad (2000)\*. The anthocyanin absorbance was analyzed by the Ocean Optics spectrophotometer (Ocean Optics Inc., Dunedin, FL) at 515 and 700 nm in pH 1.0 and 4.5 buffers. The absorbance was calculated based on cyaniding-3-glucoside (c3g), the predominant anthocyanin molecule, with a molar extinction coefficient of 26,900 according to the following formula:  $A = [(A_{515} - A_{700})_{pH 1.0} - (A_{515} - A_{700})_{pH 4.5}]$ . Results were expressed as mg c3g/g fresh weight.

*Giusti M.M., Wrolstad R.E. 2000. Current Protocols in Food Analytical Chemistry. New York: Wiley and Sons, Inc.*

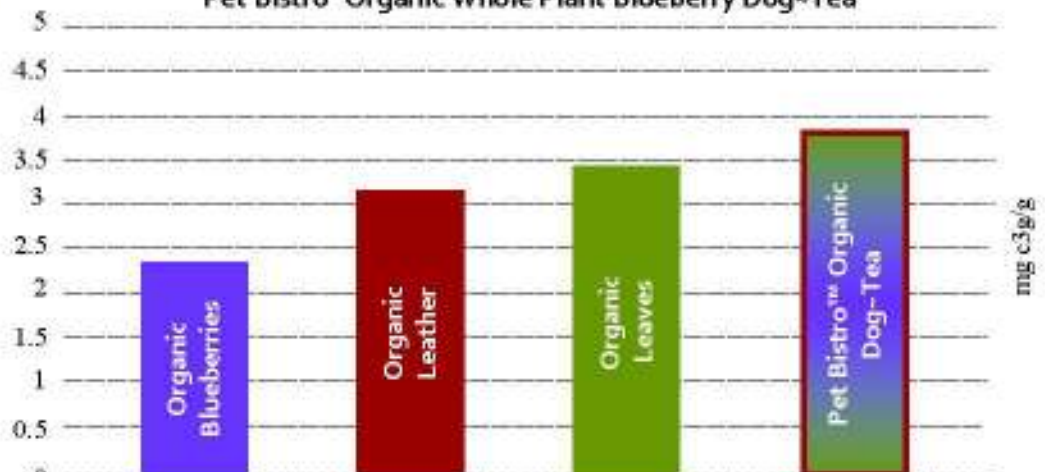


Anthocyanin Testing  
Pet Bistro® Whole Plant  
Organic Blueberry  
Dog-Tea

	mg c3g/g
Org. Blueberries	2.39
Leather	3.24
Leaves	3.31
Tea	3.77

Contents are the sole property of Pet Bistro® and may not be copied or used in any manner without written permission from Pet Bistro. All content is protected under Pet Bistro Trademarks.

Anthocyanin Testing of Raw Materials and Finished Product For Pet Bistro® Organic Whole Plant Blueberry Dog-Tea



Prepared By Dr. Kristi Michele Crowe  
University of Maine, Food Science Department  
Certified Organic by Maine Organic Farmers & Gardeners Association