

Certificate of Analysis

Product Name: **Bilberry Extract**
 Botanical Name: **Vaccinium myrtillus**
 Part Used: **Fruit**
 Extraction Solvent(s): **Water & Ethanol (≤5000 ppm)**
 Carrier: **Maltodextrin**
 Country of Origin: **Finland (Botanical Species)**
China (Manufactured)
 Batch Number: **Varies**
 Manufacture Date: **Varies**
 Retest Date: **Varies**

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
Delphinidin 3-O-Galactoside Chloride	Report Only	37700 ppm
Delphinidin 3-O-Glucoside Chloride	Report Only	37100 ppm
Cyanidin 3-O-Galactoside Chloride	Report Only	34100 ppm
Delphinidin 3-O-Arabinoside Chloride	Report Only	29900 ppm
Delphinidin 3-O-Rutinoside Chloride	Report Only	<4.23 ppm
Cyanidin 3-O-Glucoside Chloride	Report Only	26900 ppm
Petunidin 3-O-Galactoside Chloride	Report Only	11700 ppm
Cyanidin 3-O-Arabinoside Chloride	Report Only	20000 ppm
Cyanidin 3-O-Rutinoside Chloride	Report Only	<4.24 ppm
Petunidin 3-O-Glucoside Chloride	Report Only	24200 ppm
Delphinidin Chloride	Report Only	5680 ppm
Petunidin 3-O-Rutinoside Chloride	Report Only	<4.23 ppm
Peonidin 3-O-Galactoside Chloride	Report Only	2720 ppm
Petunidin 3-O-Arabinoside Chloride	Report Only	7070 ppm
Peonidin 3-O-Glucoside Chloride	Report Only	10600 ppm
Malvidin 3-O-Galactoside Chloride	Report Only	9290 ppm
Peonidin 3-O-Arabinoside Chloride	Report Only	1360 ppm
Malvidin 3-O-Glucoside Chloride	Report Only	25100 ppm
Cyanidin Chloride	Report Only	4660 ppm
Malvidin 3-O-Arabinoside Chloride	Report Only	5180 ppm
Petunidin Chloride	Report Only	1970 ppm
Peonidin Chloride	Report Only	675 ppm
Malvidin Chloride	Report Only	1730 ppm
Total Anthocyanosides	Report Only	283000 ppm
Total Anthocyanidins	Report Only	14700 ppm
Total Anthocyanosides and Total Anthocyanidins	≥25%	298000 ppm (29.8%)
Arsenic	≤2.0 ppm	0.249 ppm
Cadmium	≤1.0 ppm	<0.00500 ppm
Lead	≤2.0 ppm	0.0155 ppm
Mercury	≤1.0 ppm	<0.00500 ppm
Aerobic Plate Count	≤10,000 cfu/g	<20 cfu/g
Coliforms	≤1000 cfu/g	<20 cfu/g
<i>E. Coli</i>	Absent (cfu/10g)	Absent
<i>Staph aureus</i>	Absent (cfu/10g)	Absent
Yeast & Mold	≤1,000 cfu/g	<20 cfu/g
<i>Salmonella</i>	Absent (cfu/10g)	Absent
<i>Pseudo. aeruginosa</i>	Negative	Absent
Conclusion (PureBulk):	This product conforms to standards	

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

ITEMS	SPECIFICATIONS	RESULTS
Identification	Corresponds to Reference Standard	Conforms
Appearance	Dark purple to black fine powder	Conforms
Particle Size	≥95% through 80 mesh	Conforms
Loss on Drying	≤10.0%	3.25%
Bulk Density	Between 30-70 g/100ml	38 g/100ml
Solvent Residue	Meets Requirements	Conforms
Pesticide Residue	Meets Requirements	Conforms
Conclusion (Manufacturer):	This product conforms to enterprise standards	

Note: This is a natural product, variances may be found that are due to the growing and drying conditions, age, season, harvest time, geographic location, production process, etc.

Additional Information: Allergen Free || Gluten-Free || BSE/TSE Free || Food Grade || Vegan/Vegetarian

H.T.S. Code: 1302199099

Sterilization Method: Non-Irradiation || Non-EtO || Ethanol

GMO Statement: Non-GMO

Composition: 95-99% Bilberry Extract
1-5% Maltodextrin

Storage Conditions: **Keep in sealed container under 25°C.**
Keep away from strong light, heat and moisture.

Purebulk, Inc. verifies that the information contained herein is true and correct to the best of our knowledge.

Verified By: Candace Gibson / Nicole Rammage

(This document was produced electronically and is valid without signature.)