

## Certificate of Analysis

Product Name:	<b>Berberine HCL</b>
Botanical Name:	<b><i>Phellodendron amurense Rupr</i></b>
Plant Part Used:	<b>Bark</b>
Extraction Solvent(s):	<b>Water &amp; Ethanol</b>
Carrier:	<b>None</b>
Country of Origin:	<b>China</b>
Batch Number:	<b>Varies</b>
Manufacture Date:	<b>Varies</b>
Retest Date:	<b>Varies</b>

## Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
Berberine HCl (HPLC)	≥97%	98.02%
Loss on Drying (USP<731>)	≤15.0%	8.42%
Aerobic Plate Count	≤10,000 cfu/g	<20 cfu/g
Coliforms	≤100 cfu/g	<20 cfu/g
<i>E. Coli</i>	Negative	Absent
<i>Staph aureus</i>	Negative	Absent
Yeast & Mold	≤1,000 cfu/g	<20 cfu/g
<i>Salmonella</i>	Negative	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	Yellow fine powder	Conforms
Particle Size	≥95% through 80 mesh	Conforms
Bulk Density	Between 10-50 g/100ml	21 g/100ml
Lead	≤2.0 ppm	0.0098 ppm
Arsenic	≤2.0 ppm	0.0586 ppm
Cadmium	≤1.0 ppm	0.0055 ppm
Mercury	≤1.0 ppm	0.0087 ppm
Solvent Residue	Meets Requirements	Conforms
Pesticide residue	Meets Requirements	Conforms
Conclusion (Manufacturer):	This product conforms to enterprise standards	

<b>Additional Information:</b>	Non-Allergen    Gluten Free    BSE/TSE Free    Vegan/Vegetarian
<b>Sterilization Method:</b>	Non-Irradiation    Non-EtO    Heat
<b>GMO Statement:</b>	Non-GMO
<b>Storage Conditions:</b>	<b>Keep in sealed container under 25°C. Keep away from strong light, heat and moisture.</b>

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

*Verified By: Ann Foote / Nicole Rammage / Candace Gibson*

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