

Certificate of Analysis

Product Name: **N-Acetyl L-Cysteine**
 Raw Material: **Acetic anhydride, L-Cysteine HCL made from L-Cystine (hydrolyzed duck feather)**
 Country of Origin: **China**
 Batch Number: **Varies**
 Manufacture Date: **Varies**
 Retest Date: **Varies**

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
N-Acetyl L-Cysteine (HPLC)	98.5-101%	100.98%
Loss on Drying (LOD) (USP<731>)	≤0.5%	0.43%
Aerobic Plate Count	≤1000 cfu/g	<10 cfu/g
Yeast & Mold	≤100 cfu/g	<10 cfu/g
Coliforms	≤100 cfu/g	<10 cfu/g
<i>E. Coli</i>	Negative	Absent
<i>Salmonella</i>	Negative	Absent
<i>Staph aureus</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
Appearance	White crystals or crystalline powder	White crystalline powder
Identification	Infrared absorption	Conforms
pH Value	2.0-2.8	2.22
Melting Point	106-110°	107-109°
Specific Optical Rotation	+21.3°~+27.0°	+25.4°
State of Solution (Transmittance)	≥98%	99.6%
Residue on Ignition	≤0.20%	0.06%
Chloride (Cl)	≤0.04%	<0.04%
Sulfate (SO4)	≤0.03%	<0.03%
Ammonium (NH4)	≤0.02%	<0.02%
Heavy Metals	≤0.001%	<0.001%
Iron (Fe)	≤0.002%	<0.002%
Arsenic (As)	≤0.0001%	<0.0001%
Other Amino Acids	Chromatographically not detectable	Not detectable
Conclusion (Manufacturer):	This product conforms to AJI92 standards	

Additional Statement: Non-Allergen || Melamine Free || Gluten Free || No Pesticides
 || BSE/TSE free || Gras- yes || Non- Vegan/Vegetarian || Non-Sewer Sludge

Sterilization Method: Non-ETO || Non-Irradiation

GMO Statement: Non-GMO

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.)