

Certificate of Analysis

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|--------------------|-------------------------|
| Product Name: | L-Histidine Base |
| CAS# | 71-00-1 |
| Country of Origin: | China |
| Batch Number: | Varies |
| Manufacture Date: | Varies |
| Retest Date: | Varies |

Test Results Obtained by PureBulk

| ITEMS | SPECIFICATIONS | RESULTS |
|---------------------------|------------------------------------|-----------|
| L-Histidine (HPLC) | 98.5-101.0% | 99.39% |
| Aerobic Plate Count | ≤1000 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 | ≤100 cfu/g | <20 cfu/g |
| Salmonella | 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 | Conform (as per EP7) | Conforms |
| Appearance | White or almost white crystalline powder or colorless crystals | Conforms |
| Appearance of solution | Clear and not more intensely colored than reference solution BY ₇ | Conforms |
| Specific Rotation | +11.4° to +12.4° | +12.3° |
| Ninhydrin - Positive Substances | Conform (as per EP7) | Conforms |
| Chlorides | ≤200 ppm | <200 ppm |
| Sulfates | ≤300 ppm | <300 ppm |
| Ammonium | ≤200 ppm | <200 ppm |
| Iron | ≤10 ppm | <10 ppm |
| Heavy Metals | ≤10 ppm | <10 ppm |
| Lead | ≤0.5 ppm | <0.5 ppm |
| Cadmium | ≤1 ppm | <1 ppm |
| Mercury | ≤0.1 ppm | <0.1 ppm |
| Arsenic | ≤1 ppm | <1 ppm |
| Loss on drying | ≤0.5% | 0.14% |
| Sulphated Ash | ≤0.1% | <0.1% |
| Particle Size | 98% pass 20 mesh | Conforms |
| Bulk Density | Report Only | 0.65 g/ml |
| Tapped density | Report Only | 0.87 g/ml |
| Conclusion (Manufacturer): | This product conforms to EP7 standards | |

Additional Information: Non-Allergen || BSE-TSE Free || Vegetarian || Gluten Free

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: Linda Heatley / Candace Gibson

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