

Certificate of Analysis

Product Name: L-Valine CAS# 72-18-4

Starting Material: Glucose (Non-GMO Corn)

Extraction Solvent(s):

Country of Origin:

Batch Number:

Manufacture Date:

Retest Date:

Varies

Varies

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
L-Valine (Titration) (USP)	≥98.5%	99.31%
Loss on Drying (LOD) (USP)	≤0.3%	0.24%
Aerobic Plate Count	≤ <mark>1000</mark> cfu/g	<20 cfu/g
Yeast & Mold	≤100 cfu/g	<20 cfu/g
Coliforms	≤100 cfu/g	<20 cfu/g
E. Coli	Negative	Absent
Salmonella	Negative	Absent
Staph aureus	Negative	Absent
Pseudo. aeruginosa	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	Whitish crystals or crystal powder	Conforms	
Odor	Odorless	Conforms	
Taste	Taste Sweet	Conforms	
Specific Rotation [α]D25	+26.6~+28.8°	27.5°	
Residue on Ignition	≤0.1%	0.07%	
Chloride (CI)	≤0.05%	<0.05%	
Sulfate (SO4)	≤0.03%	<0.03%	
рН	5.5~7.0	5.80	
Iron Salt	≤0.003%	<0.003%	
Arsenic (As)	≤3 mg/kg	<3 mg/kg	
Heavy Metals	≤10 mg/kg	<10 mg/kg	
Conclusion (Manufacturer):	This product conforms to USP24 standards		
A delitional Information.	Unformation. Non Allergen DCE/TCE Free Vegen/Vegeterien Cluten Free		

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

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: Linda Heatley / Candace Gibson

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

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