

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Ectoine		
<b>INCI Name</b>	4-Pyrimidinecarboxylic acid		
<b>CAS</b>	96702-03-3		
<b>Batch Number</b>	20241206	<b>Manufacture Date</b>	20241206
<b>Report Date</b>	20241206	<b>Expiry Date</b>	20261205

Item of Analysis	Specification	Results
Appearance	White or white-like crystal or powder	Conforms
Identity (IR-spectrum)	Corresponds to the reference	Conforms
Odor	Odorless to slight characteristic odor	Conforms
Assay (HPLC)	≥99%	99.7%
Purity (by HPLC,% area)	≥99%	99.9%
Transmittance	≥98%	99.7%
pH (2% solution)	5.0~7.0	6.7
Optical Rotation	+139.0°~+145.0°	+140.4°
Residue on ignition	≤0.20%	0.04%
Loss on drying	≤1.00%	0.13%
As	≤2 ppm	Not Detected
Pb	≤10 ppm	<0.3ppm
Cd	≤5 ppm	Not Detected
Hg	≤1 ppm	Not Detected
Total microbial count	≤100 cfu/g	Conforms
Molds & Yeasts	≤50 cfu/g	Conforms
Escherichia coli & Salmonella	Negative	Not Detected
Staphylococcus aureus	Negative	Not Detected
Pseudomonas aeruginosa	Negative	Not Detected
Conclusion: The product meets In-house requirements		

**Storage:** Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

**Shelf Life:** 24 months if store under the conditions above and stay in original packaging.

Specializing in Cosmetics Ingredients and Nutritional Supplement Ingredients

[www.aogubio.com](http://www.aogubio.com)

