



Certificate of Analysis

Product name:	Ectoin	CAS No:	96702-03-3
Package:	500g/bag	Quantity:	100kg
MFG Date:	2025/03/04	EXP Date:	2028/03/03
Batch No.:	EC2025030309	Standard	In House

Items	Standards	Results
Appearance	White or white-like crystal or powder	Conform
Assay(HPLC)	≥98.5%	99.3%
Sectrographical identification	The infrared absorption spectrum should be consistent with the reference spectrum	Conform
pH	6.0~6.8	5.9
Specific Rotation	+139°~+145°	+140.4°
Color	≤ 25Hazen	<25Hazen
Light transmittance of solution	The transmittance at a wavelength of 430nm should not be lower than 98.0%.	100%
Light transmittance of 10% water solution	The transmittance at a wavelength of 430nm should not be lower than 98.0%.	99.6%
Conductivity of 5% water solution	≤5.0 uS/cm	2.65 uS/cm
Solvent residue (methanol)	≤10ppm	<10ppm
Solvent residues (ethanol)	≤10ppm	<10ppm
Chloride	≤0.03%	<0.03%
Loss on drying	≤0.5%	0.14%
Residue on ignition	≤0.1%	0.04%
Total plate count	≤100 CFU/g	<10 CFU/g
Yeast & Mold Count	≤50 CFU/g	<10 CFU/g
Staphylococcus aureus	No detection	Negative
Pseudomonas aeruginosa	No detection	Negative
Thermotolerant coliforms	No detection	Negative
As	≤2ppm	<2ppm
Pb	≤10ppm	<10ppm
Sb	≤1ppm	<1ppm
Cd	≤5ppm	<5ppm
Ni	≤10ppm	<10ppm
Cr	≤5ppm	<5ppm
Hg	≤1ppm	<1ppm
Conclusion:	Conform to the standards In House.	



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