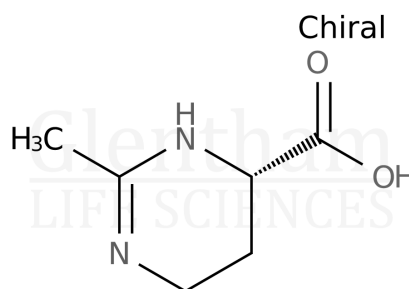


## Certificate of Analysis

Product Name	Ectoine
Glentham Code	GE1963
CAS Number	96702-03-3
EINECS	431-910-1
MDL Number	MFCD03419286
Batch Number	554FLU
Molecular Weight	142.16
Molecular Formula	$C_6H_{10}N_2O_2$
Storage Temp.	+20°C



Property	Specification	Batch 554FLU
Physical Description	White or off-white crystalline powder or crystals	White crystalline powder
Solubility (1% in methanol)	Clear, colourless solution	Clear, colourless solution
Specific Optical Rotation ( $[\alpha]_{20/D}$ )	+165.0 - +175.0 °	170.25 °
Water (KF)	≤ 1.0%	≤ 0.5%
Hydroxyectoin	≤ 5.0%	0.05%
Purity (HPLC)	≥ 95.0%	99.95%

Specification Version	v1.1
Manufacture Date	2020-10-31
Re-Test Date	2028-12-01

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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