

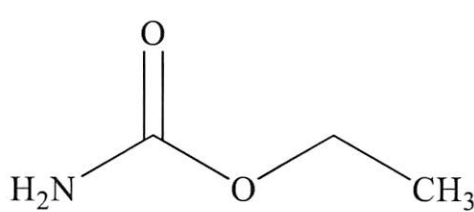
Certificate of Analysis

Certificate No.: 20250620001



Date: June 20, 2025

Retest date: June 12, 2028

Compound Name: Urethane (Ethyl Carbonate)	
Synonyms:	ethyl carbamate
TLC Catalogue Number:	U-013001
CAS Number:	51-79-6
Alternate CAS Number:	N/A
Molecular Weight:	89.09
Molecular Formula:	C ₃ H ₇ NO ₂
Source:	TLC Pharmaceutical Standards
Source Lot No.:	6411-095A1
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO



Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (GC)	Not less than 95.0%	99.9%
Impurity (GC)	N/A	
Water Content (KF)	N/A	0.9%
Residual Solvents (NMR)	0.1% methanol	
Assay (%)	Not less than 90.0%	98.9%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/20/2025
Approved by:	Quality Assurance		06/20/2025

Attachments: Peak Attribution Table, GC, IR, MS and NMR spectra.