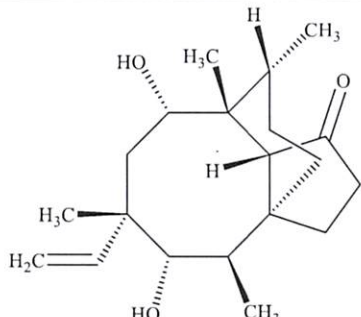


Certificate of Analysis



Certificate No.: 20250926029

Date: September 26, 2025

Retest date: September 25, 2028

Compound Name:	Mutillin Impurity 1		
Synonyms:	(3aR,4R,5S,7S,8S,9R,9aS,12R)-5,8-dihydroxy-4,7,9,12-tetramethyl-7-vinyloctahydro-4,9a-propanocyclopenta[8]annulen-3(3aH)-one		
TLC Catalogue Number:	M-129002		
CAS Number:	87680-55-5		
Alternate CAS Number:	N/A		
Molecular Weight:	320.47		
Molecular Formula:	C ₂₀ H ₃₂ O ₃		
Source:	TLC Pharmaceutical Standards		
Source Lot No.:	7040-052A6		
Storage Conditions:	Store at 2-8 °C		
Solubility:	DMSO, solution of Water and Methanol, DMF		

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 (HPLC)	Not less than 95.0%	100.0%
Impurity (HPLC)	N/A	
Residual Solvents (NMR)	3.8% <i>n</i> -hexane	
Assay (qNMR)	Not less than 90.0%	94.5%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		09/26/2025
Approved by:	Quality Assurance		09/26/2025

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