

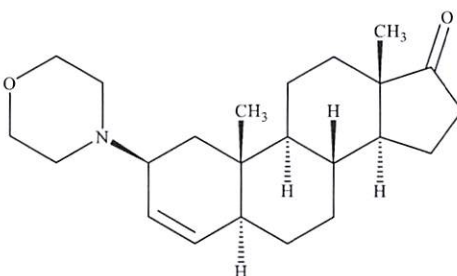
Certificate of Analysis

Certificate No.: **20260625026**



Date: June 25, 2026

Retest date: June 23, 2029

Compound Name: Rocuronium Bromide Impurity 89	
Synonyms:	(2S,5S,8R,9S,10S,13S,14S)-10,13-dimethyl-2-morpholino-1,2,5,6,7,8,9,10,11,12,13,14,15,16-tetradecahydro-17H-cyclopenta[a]phenanthren-17-one
TLC Catalogue Number:	R-3297
CAS Number:	N/A
Alternate CAS Number:	N/A
Molecular Weight:	357.54
Molecular Formula:	C ₂₃ H ₃₅ NO ₂
Source:	TLC Pharmaceutical Standards
Source Lot No.:	7454-089A4
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol



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%	99.9%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	0.2%
Residual Solvents (NMR)	0.1% dichloromethane	
Assay (%)	Not less than 90.0%	99.6%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/25/2026
Approved by:	Quality Assurance		06/25/2026

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