# **CERTIFICATE OF ANALYSIS**

(Certificate No. KMI054016-01)

**Release Date:** 07/08/2025 **Re-test Date:** 06/08/2028

## **Ipratropium EP Impurity E**

## **Identification**

#### **Chemical Name:**

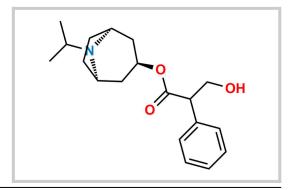
(1R,3r,5S)-8-(1-methylethyl)-8-azabicyclo[3.2.1]oct-3-yl (2RS)-3-hydroxy-2-phenylpropanoate (as per EP)

**Alt. Name** : N-Isopropyl Noratropine

**CAT No.** : KMI054016 **CAS No.** : 22235-81-0

Molecular Formula : C19H27NO3

**Molecular Weight** : 317.4



## **Analytical Information**

Batch No. : I054016-102-201 **Solubility** : Acetonitrile **Description** : Off White Solid **Mass** : Confirm : 98.41 % **HPLC Purity** IR : Confirm Weight Loss By TGA : 0.91 % 1H NMR : Confirm % Potency : 97.51 % **13C NMR** : Confirm

### **Additional Information**

**Long Term Storage** : Store at 2-8 deg. C for long term storage

**Shipping Condition**: Product is stable to be Shipped at Room Temperature

**% Potency** = [100 - 0.91(Weight Loss By TGA)] x [98.41(HPLC Purity)]/100 = 97.51 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		07/08/2025
Reviewed & Approved By	Quality Control	Jatin Patel		07/08/2025

Attachments : COA, HPLC, MASS, 1HNMR, 13CNMR, IR and TGA