# **CERTIFICATE OF ANALYSIS**

(Certificate No. KMI054016-01)

**Release Date:** 07/10/2025 **Re-test Date:** 06/10/2028

# **Ipratropium EP Impurity E**

### **Identification**

#### **Chemical Name:**

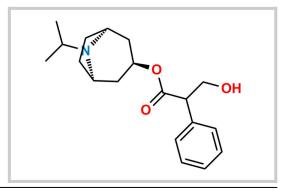
(1R,3r,5S)-8-(1-methylethyl)-8-azabicyclo[3.2.1]oct-3-yl (2RS)-3-hydroxy-2-phenylpropanoate (as per EP)

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

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

Molecular Formula : C19H27NO3

**Molecular Weight** : 317.4



## **Analytical Information**

**Description** 

: Off White Solid (1:1)

 HPLC Purity
 : 97.57 %
 Mass
 : Confirm

 Weight Loss By TGA
 : 0.91 %
 IR
 : Confirm

 % Potency
 : 96.68 %
 1H NMR
 : Confirm

**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 [97.57(HPLC Purity)]/100 = 96.68 %

-Re-purified and Re-tested on 07.10.2025

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		07/10/2025
Reviewed & Approved By	Quality Control	Jatin Patel		07/10/2025

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