CERTIFICATE OF ANALYSIS

(Certificate No. KMI054015-01)

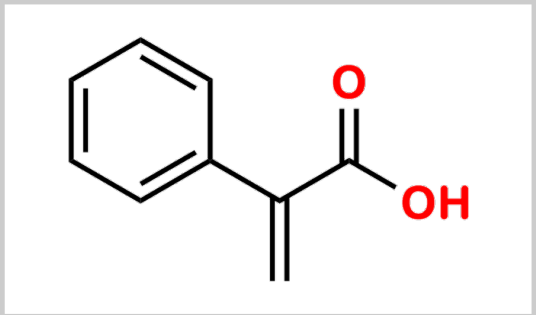
Release Date: 27/09/2025 **Re-test Date:** 26/09/2028

Ipratropium EP Impurity D

Identification

Chemical Name :
2-Phenylacrylic acid

Alt. Name	: Ipratropium Bromide USP Related Compound D ; Atropic Acid
CAT No.	: KMI054015
CAS No.	: 492-38-6
Molecular Formula	: C9H8O2
Molecular Weight	: 148.2



Analytical Information

Batch No.	: I054015-102-171
Description	: Off White Solid
HPLC Purity	: 99.24 %
Weight Loss By TGA	: 0.02 %
% Potency	: 99.22 %
Solubility	: *Refer in Additional information
Mass	: Confirm
IR	: Confirm
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 - 0.02(Weight Loss By TGA)] x [99.24(HPLC Purity)]/100 = 99.22 %
-First compound dissolve in methanol and then dilute with water (1:1)
-Re-purified and Re-tested on 27.09.2025

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		06/10/2025
Reviewed & Approved By	Quality Control	Jatin Patel		06/10/2025

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