

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

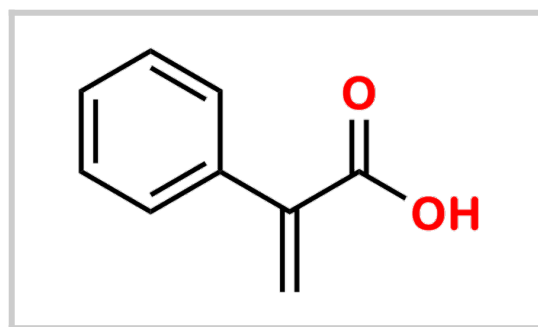
Alt. Name : Ipratropium Bromide USP Related
Compound D ; Atropic Acid

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