

CERTIFICATE OF ANALYSIS

(Certificate No. KMM051016-01)

Release Date: 15/10/2025

Re-test Date: 14/10/2028

DEXMEDETOMIDINE ETHYL IMPURITY

Identification

Chemical Name :

5-(1-(2,3-dimethylphenyl)ethyl)-1-ethyl-1H-imidazole (as per USP)

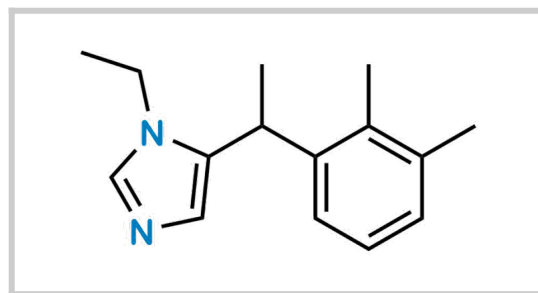
Alt. Name : N-Ethylmedetomidine

CAT No. : KMM051016

CAS No. : 2250243-24-2

Molecular Formula : C₁₅H₂₀N₂

Molecular Weight : 228.3



Analytical Information

Batch No. : M051016-102-348

Description : Yellow Liquid

HPLC Purity : 95.97 %

Weight Loss By TGA : 2.72 %

% Potency : 93.36 %

Solubility : Methanol

Mass : Confirm

IR : Confirm

¹H 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 - 2.72(Weight Loss By TGA)] x [95.97(HPLC Purity)]/100 = 93.36 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		16/10/2025
Reviewed & Approved By	Quality Control	Ravi Patel		16/10/2025

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