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## CERTIFICATE OF ANALYSIS

Analysis Date: Oct 2025

Re-test Date: Sep 2028

**Product Name: Tramadol EP Impurity B**

### Identification:

Chemical Name: [2-(3-methoxyphenyl)cyclohex-1-en-1-yl]-N,N-dimethylmethanamine hydrochloride(as per EP)

Synonyms : Tramadol 1,2-Olefin  
Hydrochloride (USP)

CAS Number : 66170-32-9

CAT Number : CP-T28002

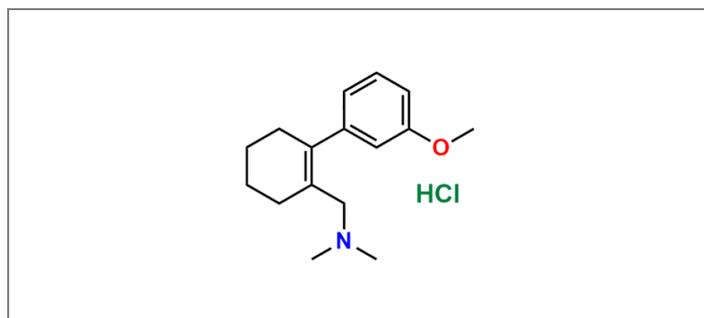
Molecular Formula : C<sub>16</sub>H<sub>23</sub>NO : HCl

Molecular Weight : 245.4 : 36.5

Batch Number : CP-TRA-B-0925

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

| Sr. No. | Test               | Result                   |
|---------|--------------------|--------------------------|
| 1)      | Description        | White Solid              |
| 2)      | Solubility         | Soluble in Methanol/DMSO |
| 3)      | MASS By LCMS       | Confirm to structure     |
| 4)      | Purity By HPLC     | 91.22%                   |
| 5)      | <sup>1</sup> HNMR  | Confirm to structure     |
| 6)      | <sup>13</sup> CNMR | Confirm to Structure     |
| 7)      | IR                 | Confirm to Structure     |
| 8)      | Weight loss by TGA | -                        |
| 9)      | Potency by TGA     | -                        |



**Prepared and Reviewed By**

A handwritten signature in blue ink, appearing to read "Priyanka Salunkhe".

Ms Priyanka Salunkhe  
(Quality Control)

**Approved By**

A handwritten signature in blue ink, appearing to read "Rohini Gagare".

Ms Rohini Gagare  
(Quality Assurance)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.