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CERTIFICATE OF ANALYSIS

Analysis Date: Feb 2025

Re-test Date: Jan 2028

Product Name: Loperamide EP Impurity G

Identification:

Chemical Name: (1s,4s)-4-(4-chlorophenyl)-1-[4-(N,N-dimethylamino)-3,3-diphenyl-4-oxobutyl]-4-hydroxypiperazine 1-oxide

Synonyms : Loperamide cis-N-Oxide

CAS Number : 109572-89-6

CAT Number : CP-L22007

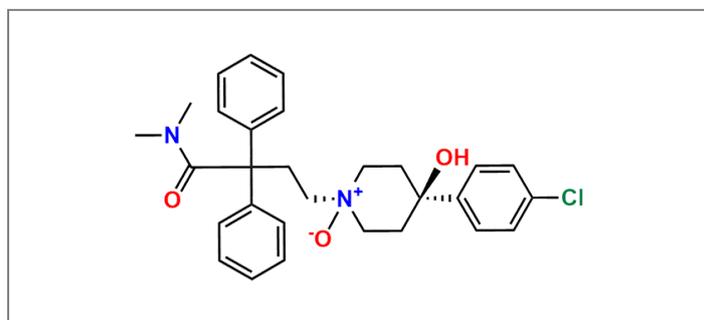
Molecular Formula : C₂₉H₃₃ClN₂O₃

Molecular Weight : 493

Batch Number : CP-LOP-G-0225

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 | 97.12% |
| 5) | ¹ HNMR | Confirm to Structure |
| 6) | ¹³ CNMR | Confirm to Structure |
| 7) | IR | Confirm to Structure |



Prepared and Reviewed By

Ms Priyanka Salunkhe
(Quality Control)

Approved By

Ms Rohini Gagare
(Quality Assurance)

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