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## CERTIFICATE OF ANALYSIS

Analysis Date: Jun 2025

Re-test Date: May 2028

**Product Name: Loperamide EP Impurity F**

### Identification:

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

Synonyms : Loperamide Trans-N-Oxide ;  
Loperamide USP Related  
Compound F;(loperamide oxide)  
(EP)

CAS Number : 106900-12-3

CAT Number : CP-L22006

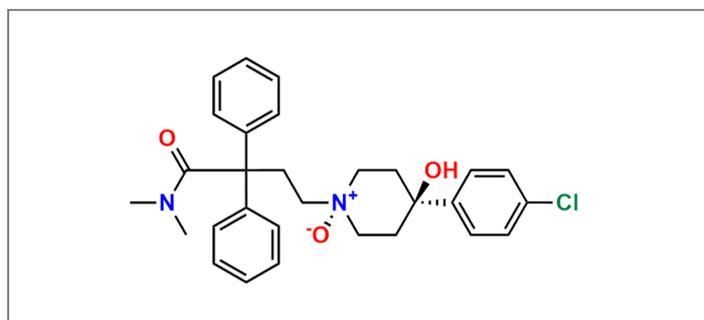
Molecular Formula : C<sub>29</sub>H<sub>33</sub>ClN<sub>2</sub>O<sub>3</sub>

Molecular Weight : 493.04

Batch Number : CP-LOP-F-0625

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	99.46%
5)	<sup>1</sup> H NMR	Confirm to structure
6)	<sup>13</sup> C NMR	Confirm to Structure
7)	IR	Confirm to Structure



**Prepared and Reviewed By**

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

Ms Priyanka Salunkhe  
(Quality Control)

**Approved By**

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

Ms Rohini Gagare  
(Quality Assurance)

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