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## CERTIFICATE OF ANALYSIS

Analysis Date: Feb 2025

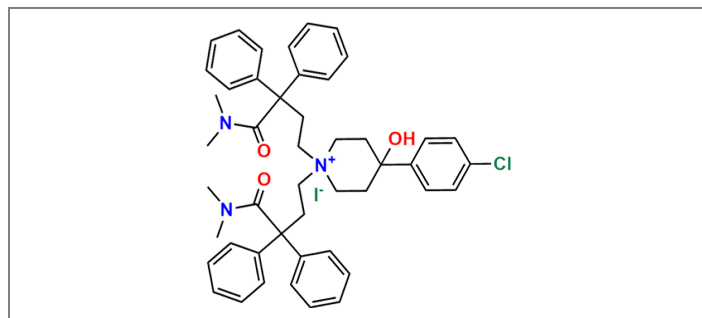
Re-test Date: Jan 2028

**Product Name: Loperamide EP Impurity B**

### Identification:

Chemical Name: 4-(4-chlorophenyl)-1,1-bis[4-(dimethylamino)-4-oxo-3,3-diphenylbutyl]-4-hydroxypiperidin-1-ium iodide

Synonyms : NA  
CAS Number : NA  
CAT Number : CP-L22002  
Molecular Formula : C<sub>47</sub>H<sub>53</sub>ClN<sub>3</sub>O<sub>3</sub> : I  
Molecular Weight : 743.4 : 126.9  
Batch Number : CP-LOP-B-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    | Pale Yellow Solid        |
| 2)      | Solubility     | Soluble in Methanol/DMSO |
| 3)      | MASS By LCMS   | Confirm to structure     |
| 4)      | Purity By HPLC | 99.91%                   |
| 5)      | H1NMR          | Confirm to structure     |
| 6)      | 13CNMR         | Confirm to Structure     |
| 7)      | IR             | Confirm to Structure     |



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

Ms Rohini Gagare  
(QA Head)

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