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### CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

**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

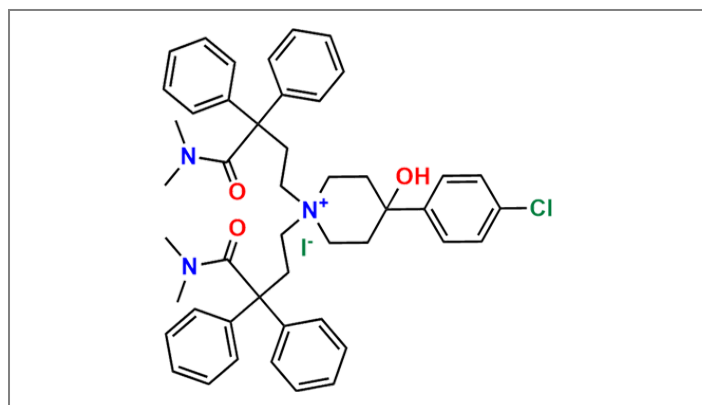
Synonyms : NA

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



#### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	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.