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### CERTIFICATE OF ANALYSIS

Analysis Date:

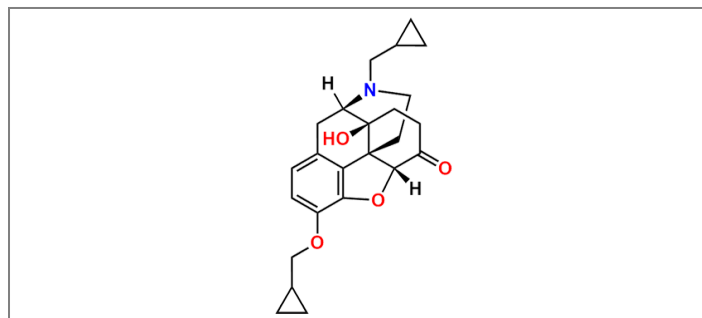
Re-test Date:

**Product Name: Naltrexone EP Impurity E**

#### Identification:

Chemical Name: 3-(Cyclopropylmethoxy)-17-(cyclopropylmethyl)-4,5 $\alpha$ -epoxy-14-hydroxymorphinan-6-one (as per EP)

Synonyms : NA  
CAS Number : 767615-69-0  
CAT Number : CP-N57005  
Molecular Formula : C<sub>24</sub>H<sub>29</sub>N<sub>4</sub>O<sub>4</sub>  
Molecular Weight : 395.5



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        | Solid                    |
| 2)      | Solubility         | Soluble in Methanol/DMSO |
| 3)      | MASS By LCMS       | Confirm to structure     |
| 4)      | Purity By HPLC     | >95%                     |
| 5)      | H1NMR              | Confirm to structure     |
| 6)      | Weight loss by TGA | -                        |
| 7)      | Potency by TGA     | -                        |



**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.