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## CERTIFICATE OF ANALYSIS

Analysis Date: Apr 2025

Re-test Date: Mar 2028

**Product Name: Phenytoin EP Impurity D**

### Identification:

Chemical Name: 3a,6a-diphenyltetrahydroimidazo[4,5-d]imidazole-2,5(1H,3H)-dione

Synonyms : NA

CAS Number : 5157-15-3

CAT Number : CP-P49004

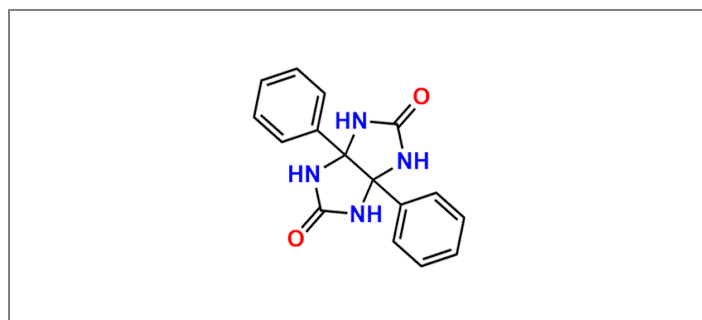
Molecular Formula : C<sub>16</sub>H<sub>14</sub>N<sub>4</sub>O<sub>2</sub>

Molecular Weight : 294.31

Batch Number : CP-PHE-D-0324

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     | 96.40 %                  |
| 5)      | <sup>1</sup> HNMR  | Confirm to structure     |
| 6)      | IR                 | Confirm to structure     |
| 7)      | Weight loss by TGA | 1.138 %                  |
| 8)      | Potency by TGA     | 95.30 %                  |



**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.