



ISO 9001:2015 CERTIFIED      CERTIFICATE OF ANALYSIS

|                       |                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | Hydrocortisone (9B, 11B - Epoxide)                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                              |
| Molecular Formula     | C <sub>21</sub> H <sub>28</sub> O <sub>5</sub>                                                                                                                    | <p>The chemical structure of Hydrocortisone (9B, 11B - Epoxide) is shown. It features a steroid nucleus with a ketone at C3, a double bond at C4-C5, and an epoxide ring at C9-C10. At C17, there is a 2-hydroxyacetyl side chain. Stereochemistry is indicated with wedges and dashes at C13, C14, and C15. The hydroxyl group on the side chain is highlighted in red.</p> |
| Molecular Weight      | 360.45                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                              |
| Batch Number          | XX-XXXX                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |
| Batch Quantity        | XXX                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                              |
| Date of Manufacturing | DD-MM-YYYY                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                              |
| Date of Analysis      | DD-MM-YYYY                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                              |
| Next Retest Date      | DD-MM-YYYY                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                              |
| Catalogue Number      | DCTI-C-1123                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |
| CAS Number            | 10072-97-6                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                              |
| COA Number            | PA-XXXX                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |
| IUPAC Name            | (4aS,4bS,5aS,7R,9aS,9bS)-7-hydroxy-7-(2-hydroxyacetyl)-4a,6a-dimethyl-4,4a,5a,6,6a,7,8,9,9a,9b,10,11-dodecahydrocyclopenta[1,2]phenanthro[4,4a-b]oxiren-2(3H)-one |                                                                                                                                                                                                                                                                                                                                                                              |
| Storage and Handling  | 2-8°C                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                              |

| Sl. No | * Test                                        | Result |
|--------|-----------------------------------------------|--------|
|        | Description                                   |        |
| 1.     | Identification i) By IR ii) By NMR iii) By MS | --     |
| 2.     | Chromatographic Purity (% by HPLC)            | --     |

Remarks: \*Test or tests as mentioned above may vary as per the product nature or customer's requirement

| Function      | Compiled by         | Reviewed by         | Reviewed by       | Approved by       |
|---------------|---------------------|---------------------|-------------------|-------------------|
| Name          | xxx                 | xxx                 | xxx               | xxx               |
| Department    | Pharma Standards QC | Pharma Standards QC | Quality Assurance | Quality Assurance |
| Sign and Date |                     |                     |                   |                   |

|                  |                                         |
|------------------|-----------------------------------------|
| Attachments      | IR, NMR, MS spectra, HPLC Chromatogram. |
| Date of Shipment | DD-MMM-YYYY                             |

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