#### Laurus Labs Limited

Plot No: 18, Jawaharlal Nehru Pharma City Parawada, Anakapalli - 531021, Andhra Pradesh, India. T +91 891 668 2500, 307 2500 F+91 891 668 2501, 307 2501



# **Certificate of Analysis**

|                    |   | A.R. No.           | FD/454/0323    |
|--------------------|---|--------------------|----------------|
| Product Name       | Pterostilbene-Picolinic acid Co-crystal | Date of Release    | 10/06/2023     |
| Batch No.          | C004320323                              | Dispatch Qty.      | 80.000 Kg      |
| Manufacturing Date | 18/02/2023                              | Specification No.  | FS(R)/25266/01 |
| Rétest/Expiry Date | 17/08/2024                              | Test Procedure No. | FT(R)/25266/01 |

| 176163    | Refest/Expiry Date   17/08/2024   Test Procedure No.   1 1(1/)/25206/01 |   |  |                                |  |
|-----------|---|---|--|--------------------------------|--|
| S.<br>No. | Test Parameter  | Specification   | Result   | Method<br>Reference            |  |
| 1.        | Description   | Pale yellow to Yellow color solid   | Yellow color solid   | USP                            |  |
|           | Identification by   |   |  |                                |  |
| 2.        | a. FT-IR  | IR spectrum of the sample should be concordant with that of standard.   | IR spectrum of test sample concordant with that of standard.   | USP<197><br>Ph.Eur<br><2.2.24> |  |
|           | b. HPLC   | Retention time of major peak in the chromatogram of sample solution should correspond to that of standard solution as obtained in Assay by HPLC | Retention time of major peak in the chromatogram of sample solution correspond to that of standard solution as obtained in Assay by HPLC | In-house                       |  |
| 3.        | Loss on drying (% w/w, 50°C under vacuum for 3 hours)                   | Not more than 1.0   | 0.21   | USP<731><br>Ph.Eur<br><2.2.32> |  |
| 4.        | Residue on ignition (% w/w)  Not more than 0.2                          |   | 0 08   | USP<281><br>Ph.Eur<br><2.4.14> |  |
|           | Related substances by HPLC  |   |  |                                |  |
|           | a.Cis-Pterostilbene (% area)  | Not more than 0.15  | BQL  | _                              |  |
| 5.        | b. Methyl Impurity (% w/w)  | Not more than 0.15  | BQL  |                                |  |
|           | c. THP protected Pterostilbene (% w/w)                                  | Not more than 0.15  | BQL  | In-house                       |  |
|           | d. Dimer Impurity (% w/w)   | Not more than 0.5   | 0.02   |                                |  |
|           | e. Any unspecified impurity(% area)                                     | Not more than 0.3   | BQL  |                                |  |
|           | f. Total impurities (%)   | Not more than 1.0   | 0.02   |                                |  |

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## **Certificate of Analysis**

| D. J. J. Maria     | Pterostilbene-Picolinic acid Co-crystal | A.R. No.           | FD/454/0323    |
|--------------------|---|--------------------|----------------|
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| Manufacturing Date | 18/02/2023                              | Specification No.  | FS(R)/25266/01 |
|                    |   | Test Procedure No. | FT(R)/25266/01 |

| S.<br>No. | Test Parameter                       | Specification          | Result       | Method<br>Reference |  |
|-----------|--------------------------------------|------------------------|--------------|---------------------|--|
|           | Assay by HPLC                        |                        |              |                     |  |
| 6         | Pterostilbene (% w/w)                | Between 66.0 and 69.0  | 66.3         |                     |  |
|           | Picolinic acid(% w/w)                | Between 31.0 and 34.0  | 33.8         | In-house            |  |
|           |                                      | Not less than 97.0 and |              |                     |  |
|           | Total Assay (% w/w, on dried basis)  | Not more than 103.0    | 100.3        |                     |  |
|           | Residual solvents by GC-HS (ppm)     |                        |              |                     |  |
|           | a. Methanol                          | Not more than 3000     | Not Detected |                     |  |
|           | b. Ethanol                           | Not more than 5000     | 95           |                     |  |
|           | c. Acetone                           | Not more than 5000     | Not Detected |                     |  |
|           | d. Dichloromethane                   | Not more than 600      | Not Detected |                     |  |
| 7         | e. Hexanes                           | Not more than 290      | Not Detected | In-house            |  |
|           | f. Tetrahydrofuran                   | Not more than 720      | Not Detected |                     |  |
|           | g. Ethyl acetate                     | Not more than 5000     | Not Detected |                     |  |
|           | h. n-Heptane                         | Not more than 5000     | 31           |                     |  |
|           | i. Toluene                           | Not more than 890      | Not Detected |                     |  |
|           | j. 2-Methoxy tetrahydropyran         | Not more than 360      | Not Detected |                     |  |
|           | Elemental impurities by ICP-MS (ppm) |                        |              |                     |  |
| _         | a. Arsenic                           | Not more than 1        | Not Detected |                     |  |
| 8.        | b. Mercury                           | Not more than 1        | Not Detected | In-house            |  |
|           | c. Cadmium                           | Not more than 1        | Not Detected |                     |  |
|           | d. Lead                              | Not more than 1        | BQL          |                     |  |
|           | Microbial limit tests (cfu/g)        |                        |              | USP                 |  |
| 9.        | a. Total Aerobic Microbial count     | Not more than 1000     | < 10 CFU/g   | <2021>              |  |
|           | b. Total combined Yeasts             | Not more than 100      | < 10 CFU/g   |                     |  |
|           | Test for Specified microorganisms    |                        |              |                     |  |
|           | a. P.aeruginosa                      |                        | Absent       | USP                 |  |
| 10.       | b. Salmonella                        | Should be absent       | Absent       | <2022>              |  |
| }         | c. Staphylococcus                    | Official be absent     | Absent       |                     |  |
|           | d. Escherichia coli                  |                        | Absent       |                     |  |

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### **Certificate of Analysis**

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|--------------------|---|--------------------|----------------|
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| Manufacturing Date | 18/02/2023                              | Specification No.  | FS(R)/25266/01 |
| Rétest/Expiry Date |   | Test Procedure No. | FT(R)/25266/01 |

| S.<br>No. | Test Parameter                                  | Specification  | Result  | Method<br>Reference |
|-----------|---|--|---|---------------------|
| 11.       | Identification by PXRD                          | X-Ray diffractogram of the sample should be consistent with characteristic $^{\circ}2\theta$ Values at 5.6,11.3,12.3,13.4,13.9,21.0 and 26.2 $\pm$ 0.2° and absence of diffraction peaks of Relative intensity Not more than 4% at 3.3,4.9,6.5,8.3,8.6,8.7,9.8,11.8, 17.5 and 17.9 $\pm$ 0.2° theta. | characteristic °20<br>Values at<br>5.6,11.3,12.3,13.4,<br>14.0,21.0 and 26.2° | In-house            |
| 12.       | Particle size analysis<br>Dv <sub>90</sub> (μm) | Not more than 80   | 14  | In-house            |

BQL: Below Quantitation Limit.

Remarks: The Material Complies/Does not comply as per the above specification.

|             | Prepared By       | Reviewed By       | Approved By       |
|-------------|-------------------|-------------------|-------------------|
| Name        | S.MURALIMOHAN RAO | B.VEERABHADRA RAO | V N V S KUMAR     |
| Designation | Asst. Manager     | Sr.Manager        | Dy. Manager       |
| Signature   | 8 K ,             | BER               |                   |
| Date        | 23 082023         | 23/08/2023        | 23/08/2023        |
| Department  | Quality Control   | Quality Control   | Quality Assurance |

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