

# CERTIFICATE OF ANALYSIS

Date: 05-08-2025

|                                |                                                                                                                                                                                                                                                                                                                                                                 |                                          |        |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------|
| Product Name                   | Micafungin Impurity 12                                                                                                                                                                                                                                                                                                                                          |                                          |        |
| Chemical Name                  | N-((2R,6R,9S,11R,12R,14aS,15S,16S,20S,23R,25aS)-20-((R)-3-amino-1-hydroxy-3-oxopropyl)-23-((1S,2S)-2-(3,4-dihydroxyphenyl)-1,2-dihydroxyethyl)-2,11,12,15-tetrahydroxy-6-(1-hydroxyethyl)-16-methyl-5,8,14,19,22,25-hexaoxotetracosahydro-1H-dipyrrolo[2,1-c:2',1'-l][1,4,7,10,13,16]hexaazacyclohenicosin-9-yl)-4-(5-(4-(pentyloxy)phenyl)furan-3-yl)benzamide |                                          |        |
| Structure                      |                                                                                                                                                                                                                                                                                |                                          |        |
| Batch. No.                     | -                                                                                                                                                                                                                                                                                                                                                               | CAS No.                                  | NA     |
| Analysis Date                  | -                                                                                                                                                                                                                                                                                                                                                               | Retest Date                              | 5      |
| Mol. Formula                   | C <sub>57</sub> H <sub>72</sub> N <sub>8</sub> O <sub>20</sub>                                                                                                                                                                                                                                                                                                  | Molecular Wt.                            | 1189.2 |
| Long term Storage Condition    |                                                                                                                                                                                                                                                                                                                                                                 | Store at 2-8 °C in well closed container |        |
| Handling and Transit Condition |                                                                                                                                                                                                                                                                                                                                                                 | 25-30 °C in well closed container        |        |

| Test                                                                                                                                                                                                                            | Result                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Appearance                                                                                                                                                                                                                      | -                     |
| Solubility                                                                                                                                                                                                                      | -                     |
| 1H-NMR                                                                                                                                                                                                                          | Conforms to structure |
| MASS                                                                                                                                                                                                                            | Conforms to structure |
| Chromatographic Purity                                                                                                                                                                                                          | >90%                  |
| <b>Note: This material should be used for research purpose and not for human or animal consumption. Any patent applicable for this product in any country is not applicable for this analytical standard/research chemical.</b> |                       |

|           |             |            |             |
|-----------|-------------|------------|-------------|
|           | Prepared By | Checked By | Approved By |
| Signature |             |            |             |
| Date      |             |            |             |