

Analysis Date: 14-06-2025

Re-test Date: 14-06-2028

## MUPIROCIN EP IMPURITY D

### Identification

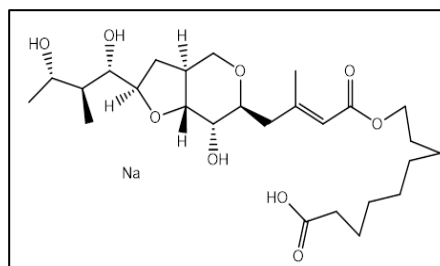
**Chemical Name** : 9-[(2E)-4-[(2R,3aS,6S,7S)-2-[(2S,3S)-1,3-dihydroxy-2-methylbutyl]-7-hydroxyhexahydro-4H-furo[3,2-c]pyran-6-yl]-3-methylbut-2-enoyl]oxy]nonanoic acid (as per EP) 9-[(E)-4-[(2R,3aS,6S,7S, 8aRS)-2-[(1R,2S,3S)-1,3-Dihydroxy-2-methylbutyl]-7-hydroxyhexahydro-2H-furo[3,2-c]pyran-6-yl]-3-methylbut-2-enoyloxy]nonanoic acid (as per USP)

**CAT No** : ALL-M07315

**CAS No** : 116182-43-5 (Sodium Salt) ;  
71087-97-3 (acid)

**Molecular Formula** : C<sub>26</sub>H<sub>43</sub>NaO<sub>9</sub>

**Molecular Weight** : 522.6



### Analytical Information

|                              |                                   |                    |           |
|------------------------------|-----------------------------------|--------------------|-----------|
| <b>Batch Code</b>            | : ALL-M07315                      | <b>HPLC Purity</b> | : 98.05%  |
| <b>Solubility</b>            | : USP Diluent / EP Diluent (MEOH) | <b>Potency</b>     | : 96.73 % |
| <b>Appearance of Product</b> | : Off White Solid                 | <b>Mass</b>        | : Confirm |
| <b>Long Term Storage</b>     | : -20 °C                          | <b>IR Analysis</b> | : Confirm |
| <b>Weight Loss By TGA</b>    | : 0.559%                          | <b>1HNMR</b>       | : Confirm |
| <b>Residue Of Ignition</b>   | : 0.784%                          |                    |           |

### Additional Information

%Potency = [100 - (Weight Loss By TGA % + Residue Of Ignition %) × Chromatographic Purity%]/100 =  
[100 - (0.559+0.784) × 98.05]/100 = 96.73 %

**Recommendation** : Released

|                          | Department | Name                               | Signature |
|--------------------------|------------|------------------------------------|-----------|
| Prepared and Reviewed by | Analytical | Mr.Vipul Khadase<br>Jr. Executive  |           |
| Approved By              | QA&QC      | Dr. Ashish Keche<br>Director QA&QC |           |

**Attachment** : HPLC, Mass, 1H NMR, IR, TGA

**Shipping Condition** : All Product are stable to be shipped at room temperature, unless otherwise specified

### Corporate Office

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