

Analysis Date: 07-08-2025

Re-test Date: 07-08-2028

## DEMECLOCYCLINE HYDROCHLORIDE - IMPURITY D

### Identification

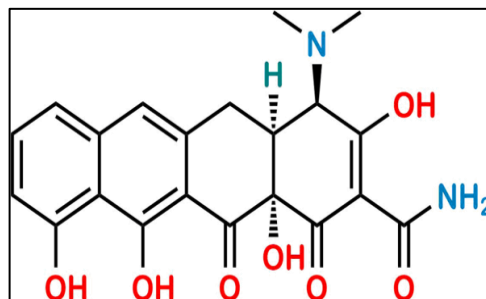
**Chemical Name** : (4R,4aS,12aS)-4-(Dimethylamino)-3,10,11,12a-tetrahydroxy-1,12-dioxo-1,4,4a,5,12,12a-hexahydrotetracene-2-carboxamide

**CAT No** : ALL-D05961

**CAS No** : N.A.

**Molecular Formula** : C<sub>21</sub>H<sub>20</sub>N<sub>2</sub>O<sub>7</sub>

**Molecular Weight** : 412.39



### Analytical Information

<b>Batch Code</b>	: ALL-D05961	<b>HPLC Purity</b>	: 98.00%
<b>Solubility</b>	: USP Diluent / EP Diluent (MEOH)	<b>Potency</b>	: 96.33%
<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>	: 0.801%	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.902%		

### Additional Information

$$\% \text{Potency} = [100 - (\text{Weight Loss By TGA \%} + \text{Residue Of Ignition \%}) \times \text{Chromatographic Purity\%}] / 100 =$$

$$[100 - (0.801 + 0.902) \times 98.00] / 100 = 96.33\%$$

**Recommendation** : Released

	Department	Name	Signature
Prepared and Reviewed by	Analytical	Mr. Vipul khadase Jr. Executive	
Approved By	QA&QC	Dr. Ashish Keche Director QA&QC	

**Attachment** : HPLC, Mass, <sup>1</sup>H NMR, IR, TGA

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

#### Corporate Office