

Analysis Date: 07-08-2025

Re-test Date: 07-08-2028

## DEMECLOCYCLINE HYDROCHLORIDE - IMPURITY B

### Identification

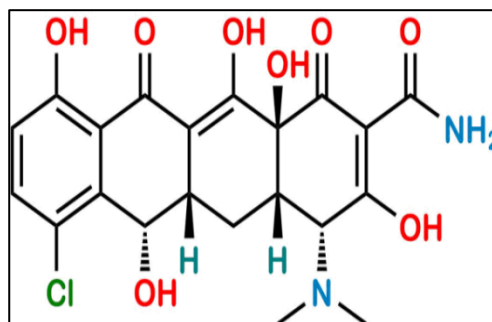
**Chemical Name** : 2-Naphthacencarboxamide, 7-chloro-4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-1,11-dioxo-, (4R,4aS,5aS,6S,12aS)- (9CI, ACI)

**CAT No** : ALL-D05953

**CAS No** : 14206-59-8

**Molecular Formula** : C<sub>21</sub>H<sub>21</sub>ClN<sub>2</sub>O<sub>8</sub>

**Molecular Weight** : 464.85



### Analytical Information

<b>Batch Code</b>	: ALL-D05953	<b>HPLC Purity</b>	: 98.00%
<b>Solubility</b>	: USP Diluent / EP Diluent (MEOH)	<b>Potency</b>	: 96.71%
<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>	: 0.601%	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.703%		

### Additional Information

%Potency = [100 - (Weight Loss By TGA % + Residue Of Ignition %) × Chromatographic Purity%]/100 =  
 [100 - (0.601+0.703) × 98.00]/100 = 96.71%

**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, 1H NMR, IR, TGA

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

#### Corporate Office