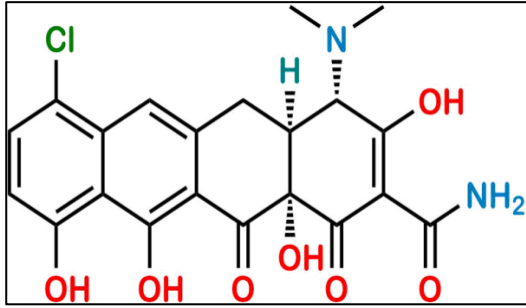


**Analysis Date:** 07-08-2025

**Re-test Date:** 07-08-2028

## DEMECLOCYCLINE HYDROCHLORIDE - IMPURITY G

### Identification

<b>Chemical Name</b>	: 2-Naphthacenicarboxamide, 7-chloro-4-(dimethylamino)-1,4,4a,5,12,12a-hexahydro-3,10,11,12a-tetrahydroxy-1,12-dioxo-, (4R,4aS,12aS)- (ACI)	
<b>CAT No</b>	: ALL-D05957	
<b>CAS No</b>	: 22688-73-9	
<b>Molecular Formula</b>	: C <sub>21</sub> H <sub>19</sub> ClN <sub>2</sub> O <sub>7</sub>	
<b>Molecular Weight</b>	: 446.84	

### Analytical Information

<b>Batch Code</b>	: ALL-D05957	<b>HPLC Purity</b>	: 98.00%
<b>Solubility</b>	: USP Diluent / EP Diluent (MEOH)	<b>Potency</b>	: 97.50%
<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>	: 0.203%	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.302%		

### Additional Information

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

$$[100 - (0.203 + 0.302) \times 98.00] / 100 = 97.50\%$$

**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