

Analysis Date: 15-01-2025

Re-test Date: 15-01-2028

## METHOTREXATE EP IMPURITY C

### Identification

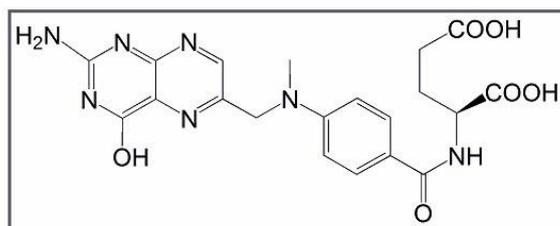
**Chemical Name** : (2S)-2-[[4-[[[(2-amino-4-hydroxy pteridin-6-yl) methyl] methyl amino] benzoyl] amino] pentanedioic acid ;

**CAT No** : ALL-M04389

**CAS No** : 2410-93-7

**Molecular Formula** : C<sub>20</sub>H<sub>21</sub>N<sub>7</sub>O<sub>6</sub>

**Molecular Weight** : 455.43



### Analytical Information

<b>Batch No</b>	: ALL-M04389	<b>HPLC Purity</b>	: 98.76 %
<b>Solubility</b>	: MeOH: ACN	<b>Potency</b>	: 97.53 %
<b>Appearance of Product</b>	: Yellow Solid	<b>Mass</b>	: Confirm
<b>Long Term Storage</b>	: 2-8 0C	<b>IR Analysis</b>	: Confirm
<b>Weight Loss By TGA</b>	: 1.066 %	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.172 %		

### Additional Information

**%Potency** = [100 % - (Weight Loss By TGA % + Residue Of Ignition %) × Chromatographic Purity%]/100 =  
 [100 - (1.066+0.172) × 98.76]/100 = 97.53 %

**Recommendation** : Released

	Department	Name	Signature
Prepared and Reviewed by	Analytical	Mr. Vipul Khadse 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