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## CERTIFICATE OF ANALYSIS

Analysis Date: May 2026

Re-test Date: Apr 2028

**Product Name: Pemetrexed EP Impurity D**

### Identification:

Chemical Name: (2S)-2-[(4S)-4-[4-[2-(2-Amino-4-oxo-4,7-dihydro-1H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl]benzamido]-4-carboxybutanamido]pentanedioic acid (as per EP)

Synonyms : Pemetrexed glutamide ;  
Pemetrexed Triacid

CAS Number : 144051-68-3

CAT Number : CP-P16004

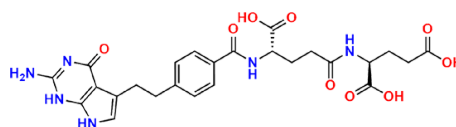
Molecular Formula : C<sub>25</sub>H<sub>28</sub>N<sub>6</sub>O<sub>9</sub>

Molecular Weight : 556.53

Batch Number : CP-PEM-D-0426

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	Mass Spectrometry	Confirm to structure
4)	Purity By HPLC	97.61%
5)	<sup>1</sup> HNMR	Confirm to structure
6)	<sup>13</sup> CNMR	Confirm to Structure
7)	FT-IR	Confirm to Structure



#### Prepared and Reviewed By



Mr. Shubham Bondre  
(Quality Control)

#### Approved By



Mr. Abhijit Kale  
(Quality Assurance)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.