

CERTIFICATE OF ANALYSIS OF REFERENCE STANDARD

Reference Standard

Date:

Pemetrexed Impurity 3/ Pemetrexed EP Impurity D

Catalogue No.: VL1240003

Batch No.:

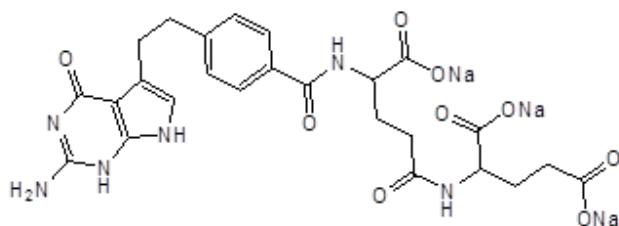
IUPAC Name: (2S)-2-[[[(4s)-4-[[4-[2-(2-amino-4-oxo-4,7-dihydro-1H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl] benzoyl]amino]-4-carboxybutanoyl]amino] pentanedioic acid; sodium salt.

OR

2-(4-{4-[2-(2-Amino-4-oxo-4,7-dihydro-3H-pyrrolo[2,3-d]pyrimidin-5-yl)-ethyl]-benzoylamino}-4-carboxy-butrylamino)-pentanedioic acid; sodium salt.

OR

L-Glutamic acid, N-[N-[4-[2-(2-amino-4,7-dihydro-4-oxo-1H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl]benzoyl]-L-γ-glutamyl]; sodium salt.



Molecular Formula: C₂₅H₂₅N₆Na₃O₉ (Salt)

Molecular Weight: 556.52 g/mol (Free Acid); 622.47g/mol (Na Salt)

Sr.#	Test	Results	Data ref.
1	Appearance	Pale brown solid	-----
2	Purity by HPLC	92.41%	Chromatogram attached
3	¹ H NMR	Conform	Report attached
4	MASS	Conform	Report attached

Storage condition: Store at 2-8 degree, protect from moisture and direct sunlight.

This certificate of analysis is valid for three years from date of manufacturing, provided the substance is stored under suitable conditions.

Manufacturing date:

Retest Date:

Document data reference:

Prepared by

Reviewed by

Approved by