

## CERTIFICATE OF ANALYSIS OF REFERENCE STANDARD

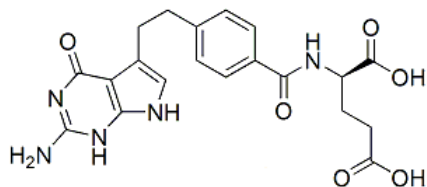
Reference Standard

Date:

**Pemetrexed EP Impurity E/ Pemetrexed D-Isomer****Catalogue No.: VL1240005**

Batch No.:

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

Molecular Formula: C<sub>20</sub>H<sub>19</sub>N<sub>5</sub>O<sub>6</sub>

Molecular Weight: 427.41 g/mol

Sr.#	Test	Results	Data ref.
1	Appearance	Pale Blue colour solid	-----
2	Purity by HPLC	93.06%	Chromatogram attached
3	<sup>1</sup> 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*