



CERTIFICATE OF ANALYSIS

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1. Identification

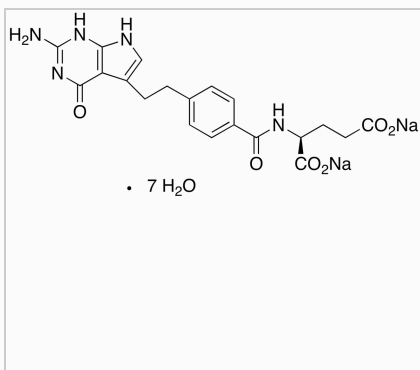
Catalogue Number: P219550

CAS Number: 357166-29-1

Product: Pemetrexed Disodium Heptahydrate

Synonym: N-[4-[2-(2-amino-4,7-dihydro-4-oxo-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl]benzoyl]-L-glutamic Acid Disodium Salt Heptahydrate

Structure:



Molecular Formula:

C₂₀H₃₃N₅Na₂O₁₃

Molecular weight:

597.48

Source of Product:

N/A

Solubility:

Methanol (Very Slightly),
Water (Sparingly)

Lot Number: 8-AZP-165-1

Purity: 98%

Shipping Condition: This Product Is Stable To Be
Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 40.10, %H: 5.58, %N: 11.62
HPLC Purity	Report Result	99.86% (225 nm)
MS	Conforms to Structure	Conforms
Water Content	Report Result	20.8% by Karl Fischer
Sodium Content	Report Result	7.61% by Ion Chromatography
Specific Rotation	Report Result	+8.4° (c = 0.3, Water)

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Swathi Reddy	Toni Rantanen	Chanell Chu	10/21/2021	10/19/2025