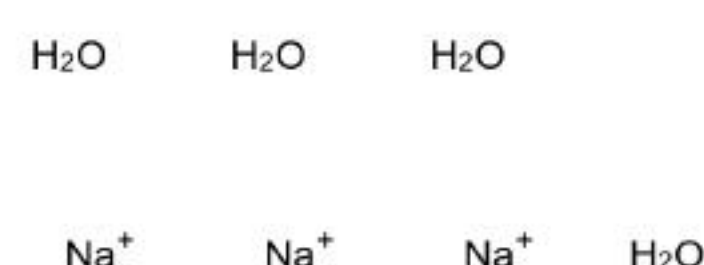


Certificate of Analysis

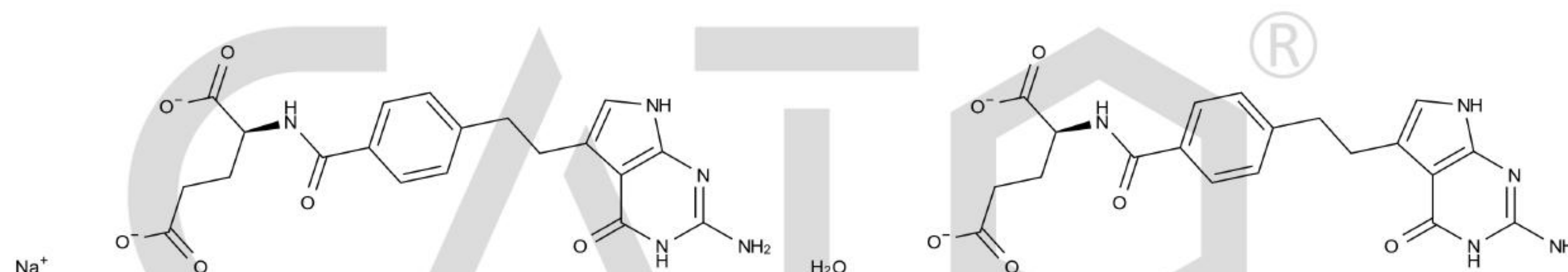
Reference Material & Standard

Product Name:	Pemetrexed disodium hemipentahydrate	Catalogue Number:	C1805169
Synonyms:	N/A	Lot Number:	0920-RH-0126
CAS Number:	357166-30-4	Expiry Date:	Oct 09, 2030
Molecular Formula:	2*C ₂₀ H ₁₉ N ₅ O ₆ 4*Na 5*H ₂ O	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	2*425.39 4*22.99 5*18.02	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	100.000%
Water Content	Karl Fischer	11.5220%
Water Content(Free Water)		2.7985%
Assay	qNMR	97.4%
Assay (Assigned Value)	Mass Balance	97.2%

Comment:

- The content of crystal water is 8.7235%.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content(Free Water)}) * \text{Purity HPLC (\%)} / 100\%$$

Water Content(Free Water) is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Oct 10, 2026

Date: Oct 10, 2026

Date: Oct 10, 2026



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

