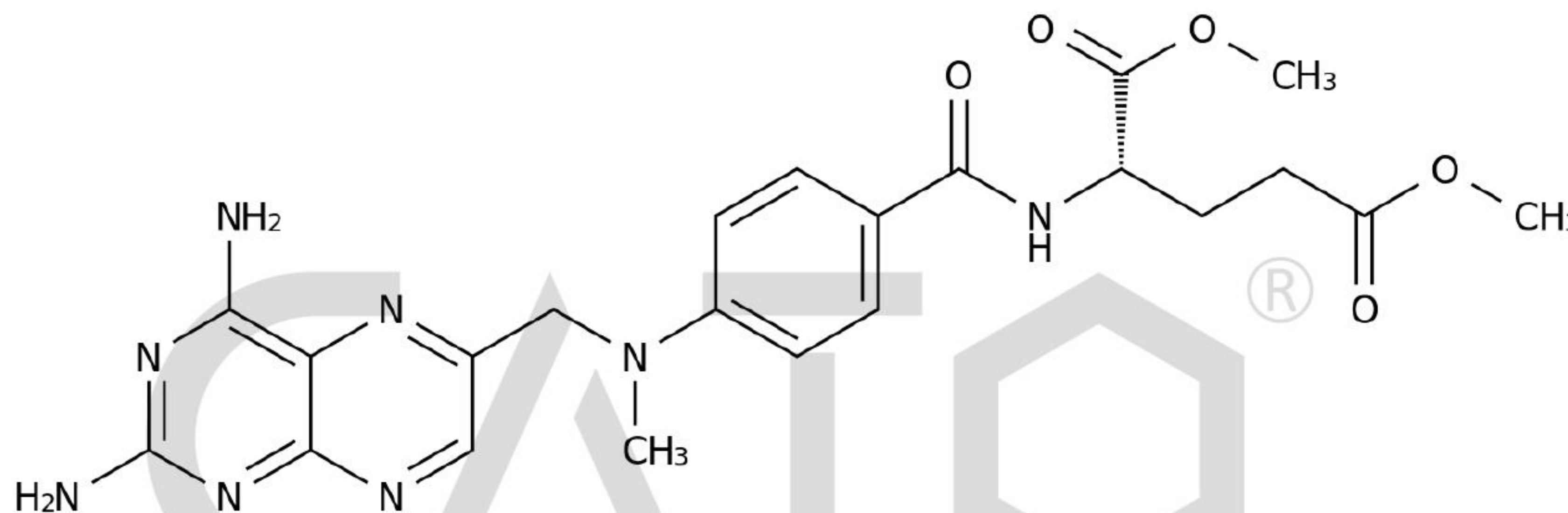


Certificate of Analysis

Reference Material & Standard

Product Name:	Methotrexate EP Impurity J	Catalogue Number:	C4X-115410
Synonyms:	N/A	Lot Number:	0730-RF-0042
CAS Number:	34378-65-9	Expiry Date:	Dec 25, 2029
Molecular Formula:	C ₂₂ H ₂₆ N ₈ O ₅	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	482.49	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.972%
Water Content	Karl Fischer	3.49%
Residual Solvents	NMR	0.40% methanol
Assay		95.1%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Reviewed by:

Approved by General Manager:

Date: Dec 30, 2025

Date: Dec 30, 2025

Date: Dec 30, 2025



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