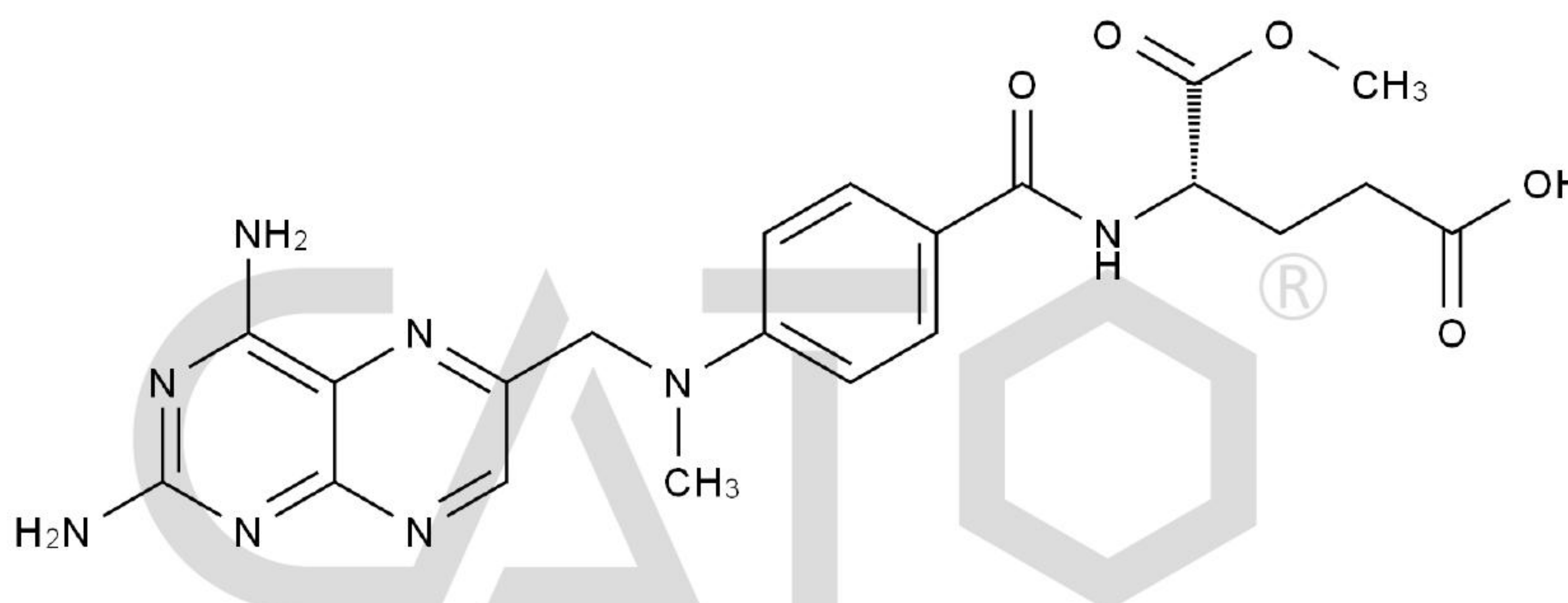


Certificate of Analysis

Reference Material & Standard

Product Name:	Methotrexate EP Impurity I	Catalogue Number:	C4X-11549
Synonyms:	Methotrexate related compound I	Lot Number:	0402-RH-0041
CAS Number:	66147-29-3	Expiry Date:	Apr 01, 2030
Molecular Formula:	C ₂₁ H ₂₄ N ₈ O ₅	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	468.47	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow to Orange Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	96.597%
Residue on Ignition	TGA	0.3694%
Loss on Drying	TGA	4.0258%
Assay		92.4%

Comment:

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

Assay (%) = (100% - Residue on Ignition - Loss on Drying) * Purity HPLC (%) / 100%

Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Apr 16, 2026

Date: Apr 17, 2026

Date: Apr 17, 2026



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