

Certificate of Analysis

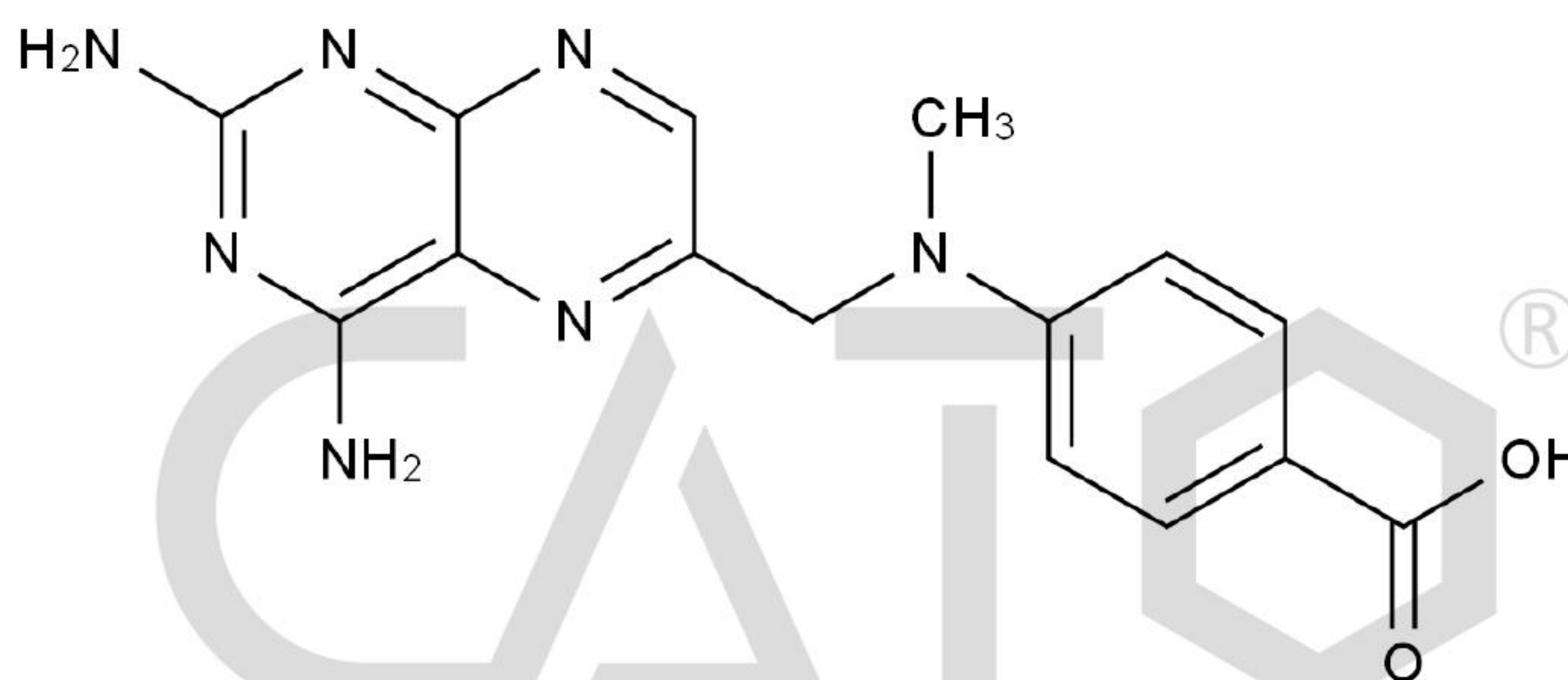
Reference Material & Standard

Product Name:	Methotrexate EP Impurity E	Catalogue Number:	C4X-11545
Synonyms:	Methotrexate Related Compound E	Lot Number:	0417-RH-0191
CAS Number:	19741-14-1	Expiry Date:	Jan 18, 2030
Molecular Formula:	C ₁₅ H ₁₅ N ₇ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	325.33	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Brown Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	98.724%
Water Content	Karl Fischer	0.81%
Residual Solvents	NMR	0.51% acetic acid and 0.28% methanol
Assay		97.1%

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: Apr 21, 2026

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