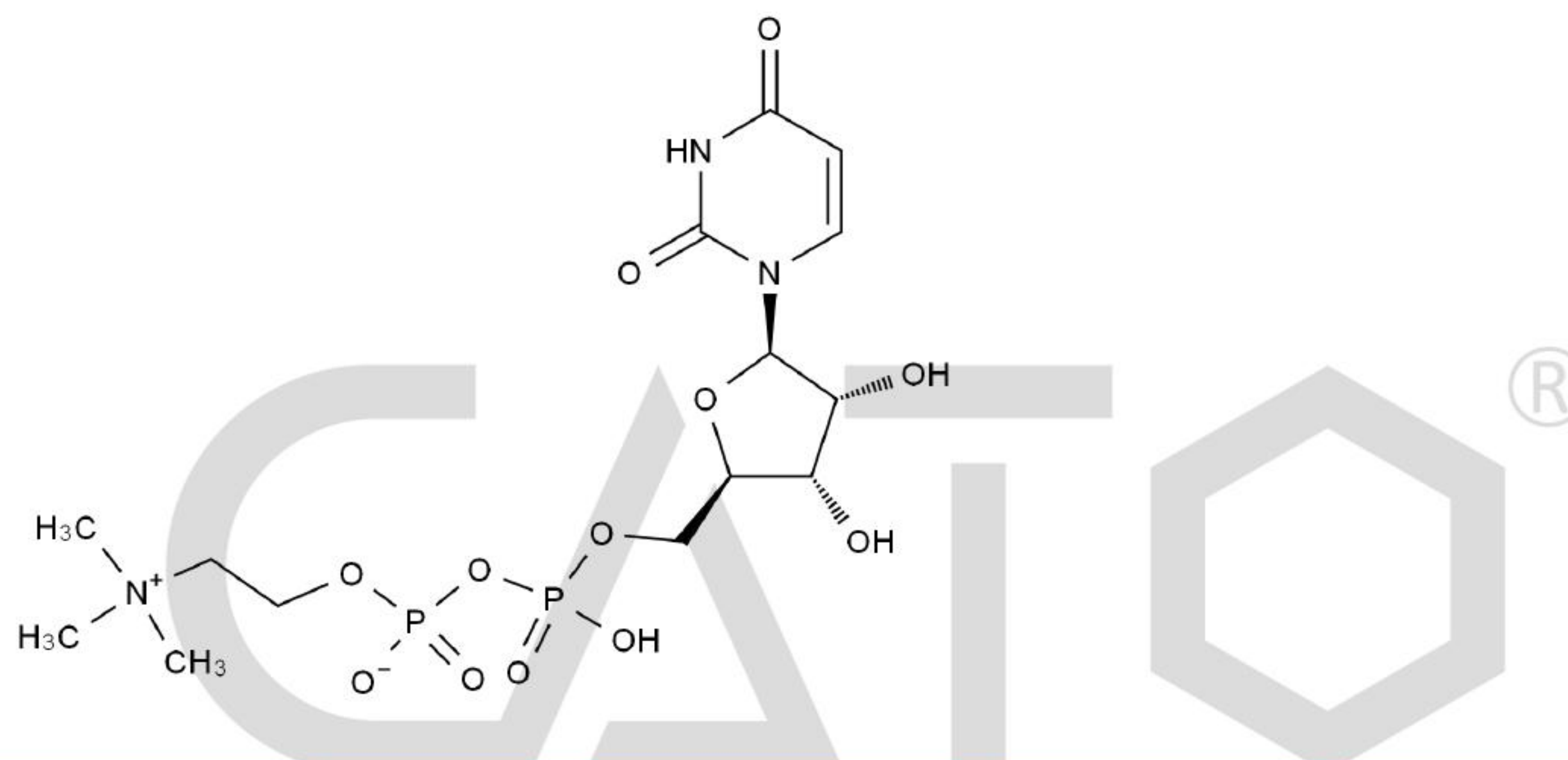


Certificate of Analysis

Reference Material & Standard

Product Name:	Citicoline Impurity 7	Catalogue Number:	C4X-22037
Synonyms:	N/A	Lot Number:	0717-RG-0096
CAS Number:	99492-83-8	Expiry Date:	Nov 23, 2029
Molecular Formula:	C ₁₄ H ₂₅ N ₃ O ₁₂ P ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	489.31	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	96.971%
Loss On Drying	TGA	6.6657%
Assay		90.5%

Comment:

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

Assay (%) = (100% - Loss On Drying) * Purity HPLC (%) / 100%

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Nov 24, 2025

Date: Nov 24, 2025

Date: Nov 24, 2025



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