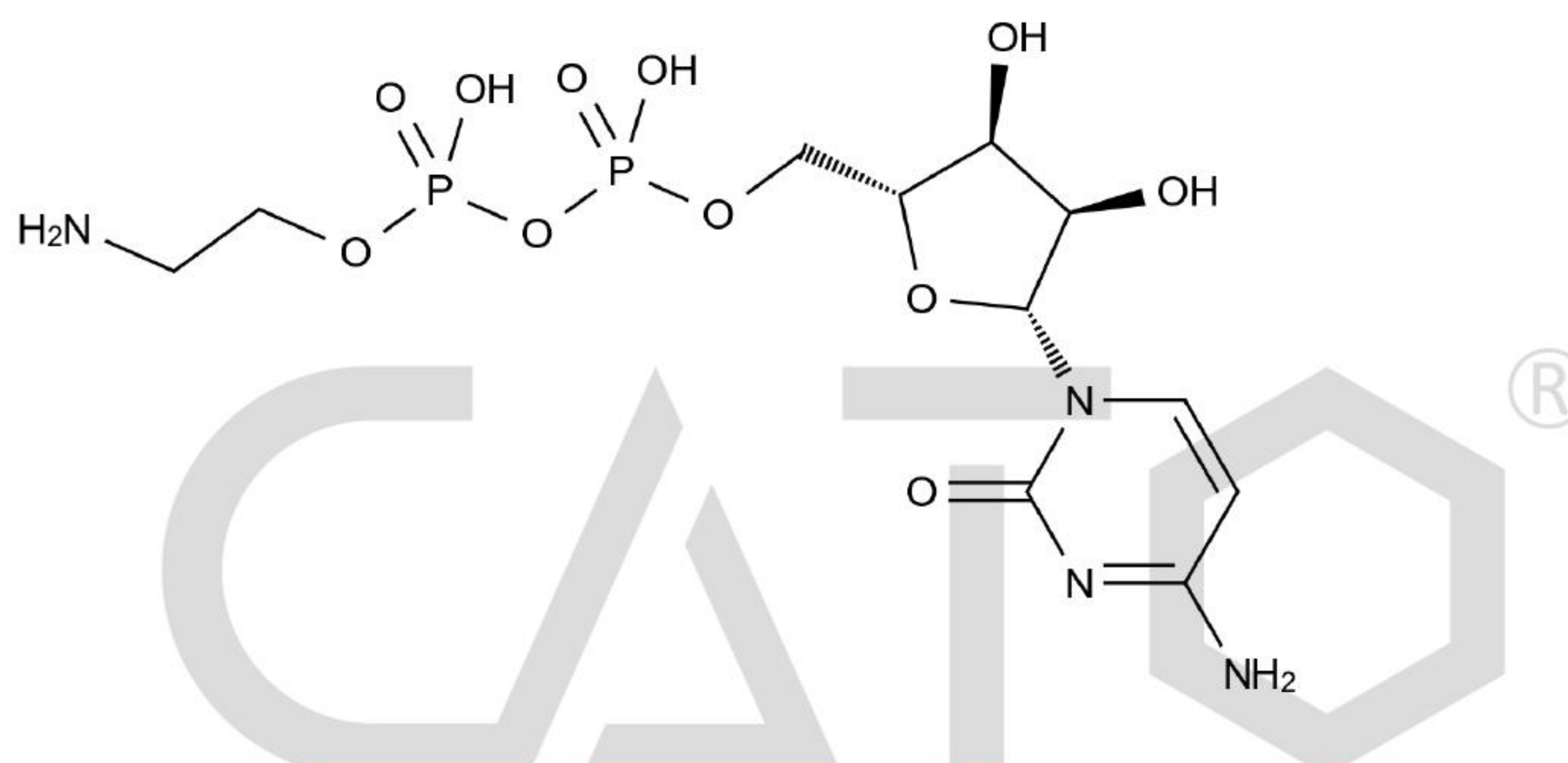


Certificate of Analysis

Reference Material & Standard

Product Name:	Citicoline Impurity 8	Catalogue Number:	C4X-22038
Synonyms:	N/A	Lot Number:	0723-RF-0040
CAS Number:	3036-18-8	Expiry Date:	Jul 23, 2027
Molecular Formula:	C ₁₁ H ₂₀ N ₄ O ₁₁ P ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	446.24	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	HRMS&HNMR	Confirmed
Purity	HPLC	96.2671%
Loss on Drying	TGA	1.047%
Assay		95.3%

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:

Lily

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Jul 24, 2024

Date: Jul 25, 2024

Date: Jul 25, 2024



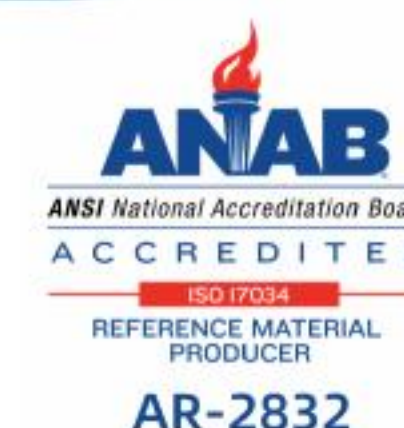
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