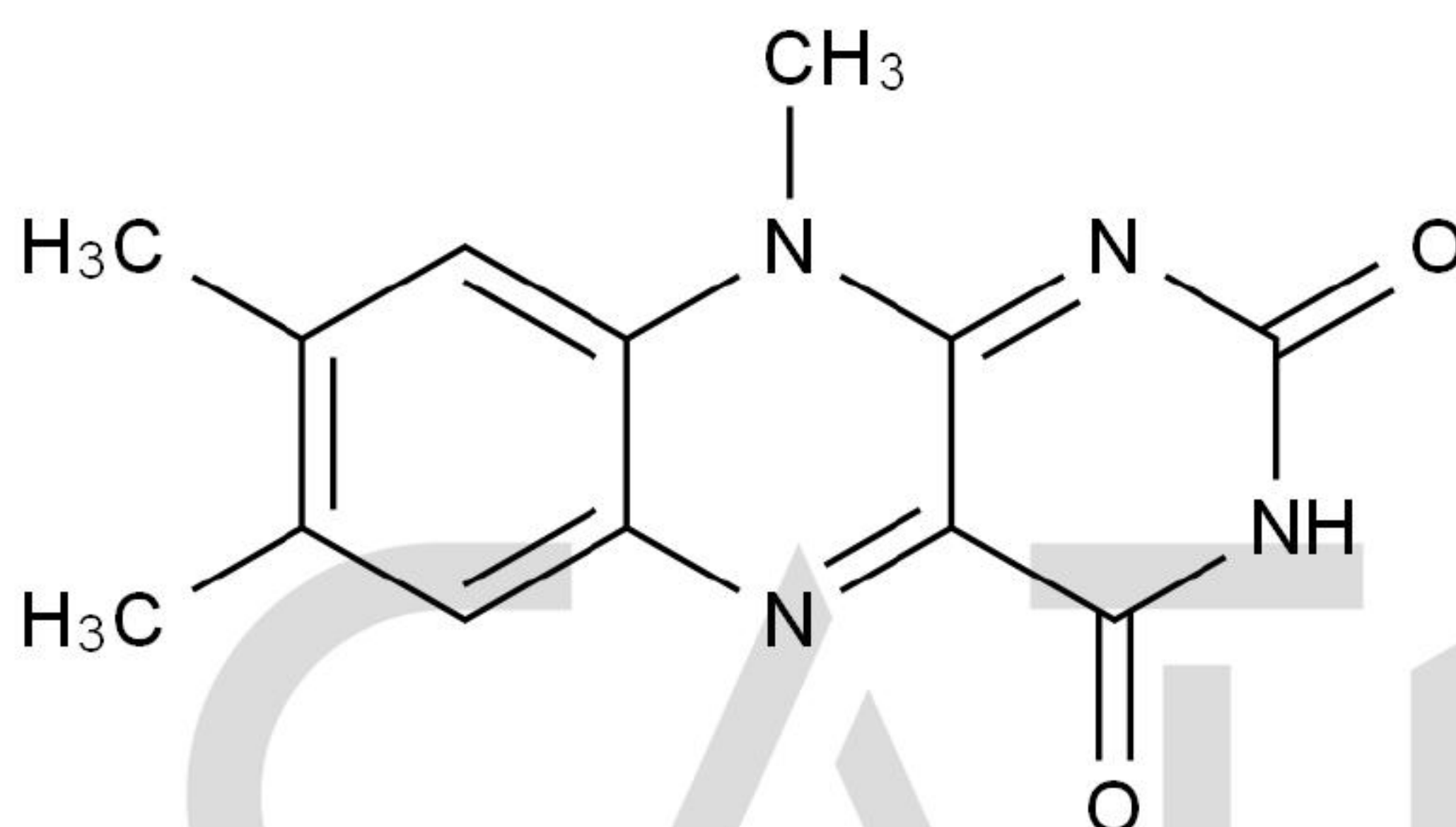


Certificate of Analysis

Reference Material & Standard

Product Name:	Riboflavin EP Impurity A	Catalogue Number:	C4X-18191
Synonyms:	N/A	Lot Number:	0529-RG-0022
CAS Number:	1088-56-8	Expiry Date:	May 28, 2028
Molecular Formula:	C ₁₃ H ₁₂ N ₄ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	256.26		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Orange Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	96.810%
Residue on Ignition	TGA	1.8954%
Loss On Drying	TGA	0.1391%
Assay		94.8%

Comment:

1. Assay was determined by quantitative ¹H-NMR.
2. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$$
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: Jun 03, 2025

Date: Jun 03, 2025

Date: Jun 03, 2025

