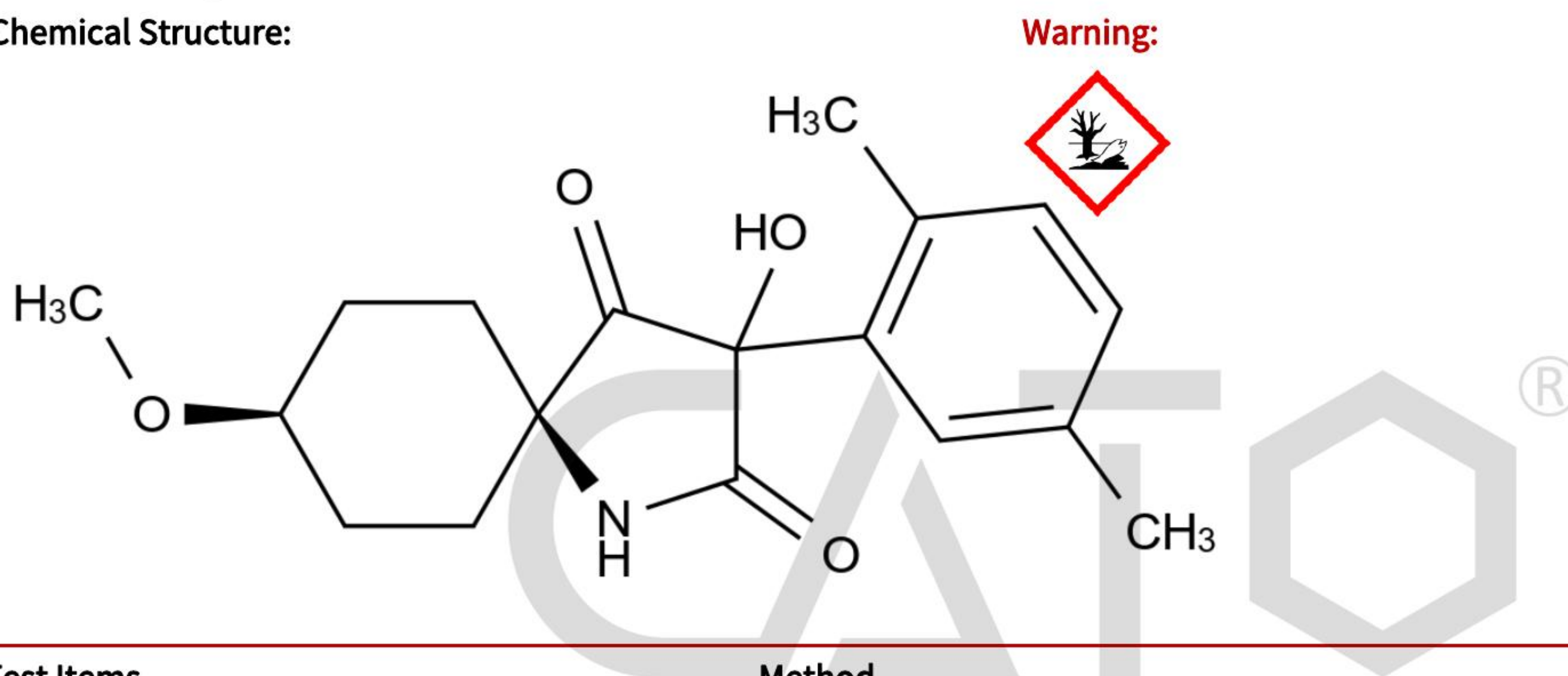


Certificate of Analysis

Reference Material & Standard

Product Name:	Spirotetramat-keto-hydroxy	Catalogue Number:	CCPD101800
Synonyms:	N/A	Lot Number:	0927-RE-0116
CAS Number:	1172134-11-0	Expiry Date:	Jun 22, 2025
Molecular Formula:	C ₁₈ H ₂₃ NO ₄	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	317.38		
Chemical Structure:			



Test Items	Method	Results
Appearance	Visual inspection	Colourless Crystalline Solid
Purity	HPLC	98.94%
Water Content	Karl Fischer	5.74%
Assay		93.3%
Uncertainty		±2.0%

Comment:

- No chromatogram available.
- The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity HPLC (\%)} / 100\%$$

Water Content is considered as absolute effect, HPLC purity is considered as relative effect.
- The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Sep 28, 2023

Date: Sep 28, 2023

Date: Sep 28, 2023

