

Certificate of Analysis

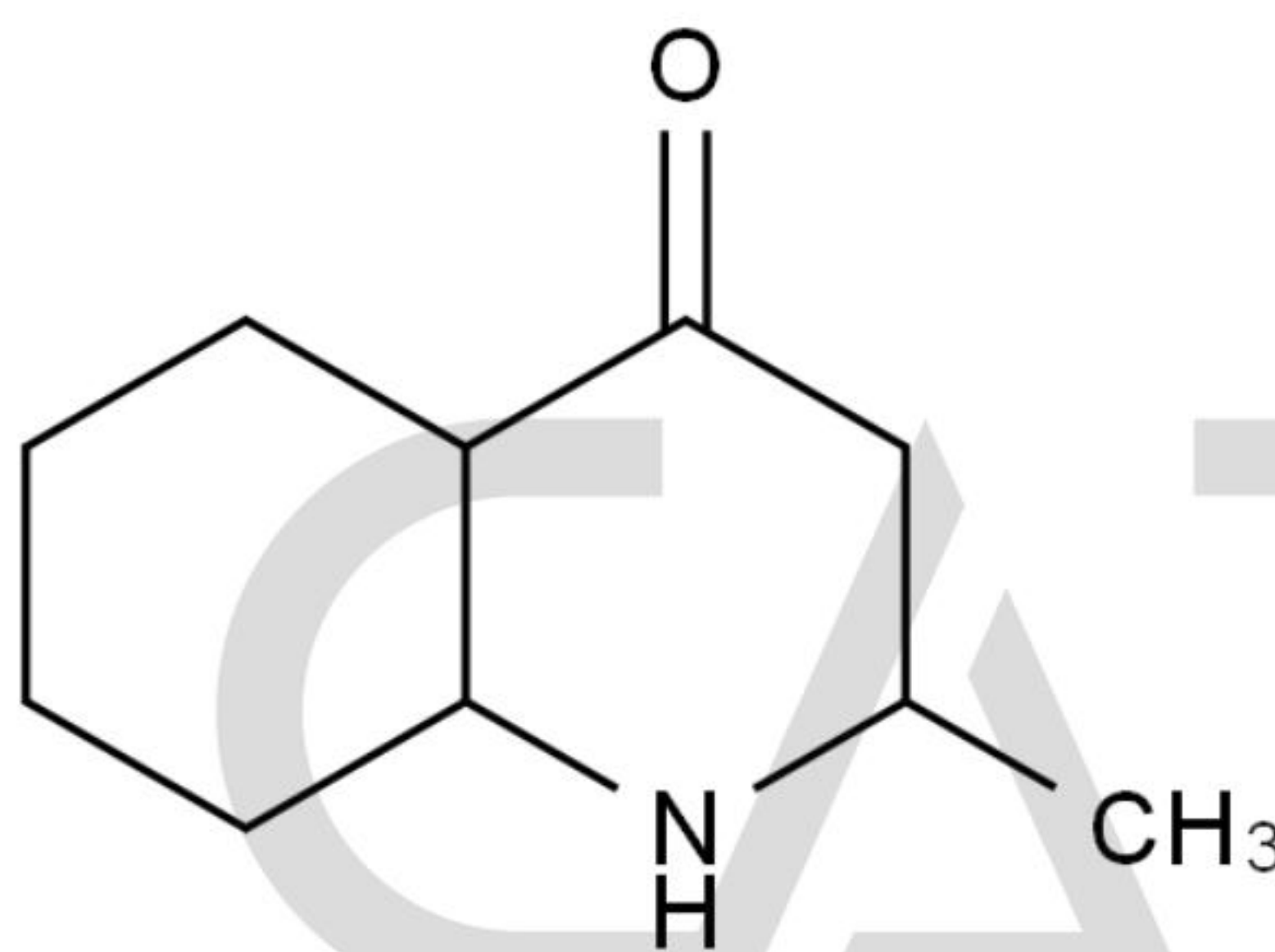
Reference Material & Standard

Product Name:	2-Methyl-octahydro-quinolin-4-one	Catalogue Number:	CS333822
Synonyms:	N/A	Lot Number:	0326-RH-0099
CAS Number:	41854-83-5	Expiry Date:	Mar 25, 2030
Molecular Formula:	C ₁₀ H ₁₇ NO	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	167.25	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Brown Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	98.376%
Loss On Drying	TGA	5.204%
Assay		93.3%
Uncertainty		±0.7%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity GC (\%)} / 100\%$$

Loss On Drying is considered as absolute effect, GC 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:

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Approved by General Manager:

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Date: Mar 26, 2026

Date: Mar 27, 2026

Date: Mar 27, 2026

