

Certificate of Analysis

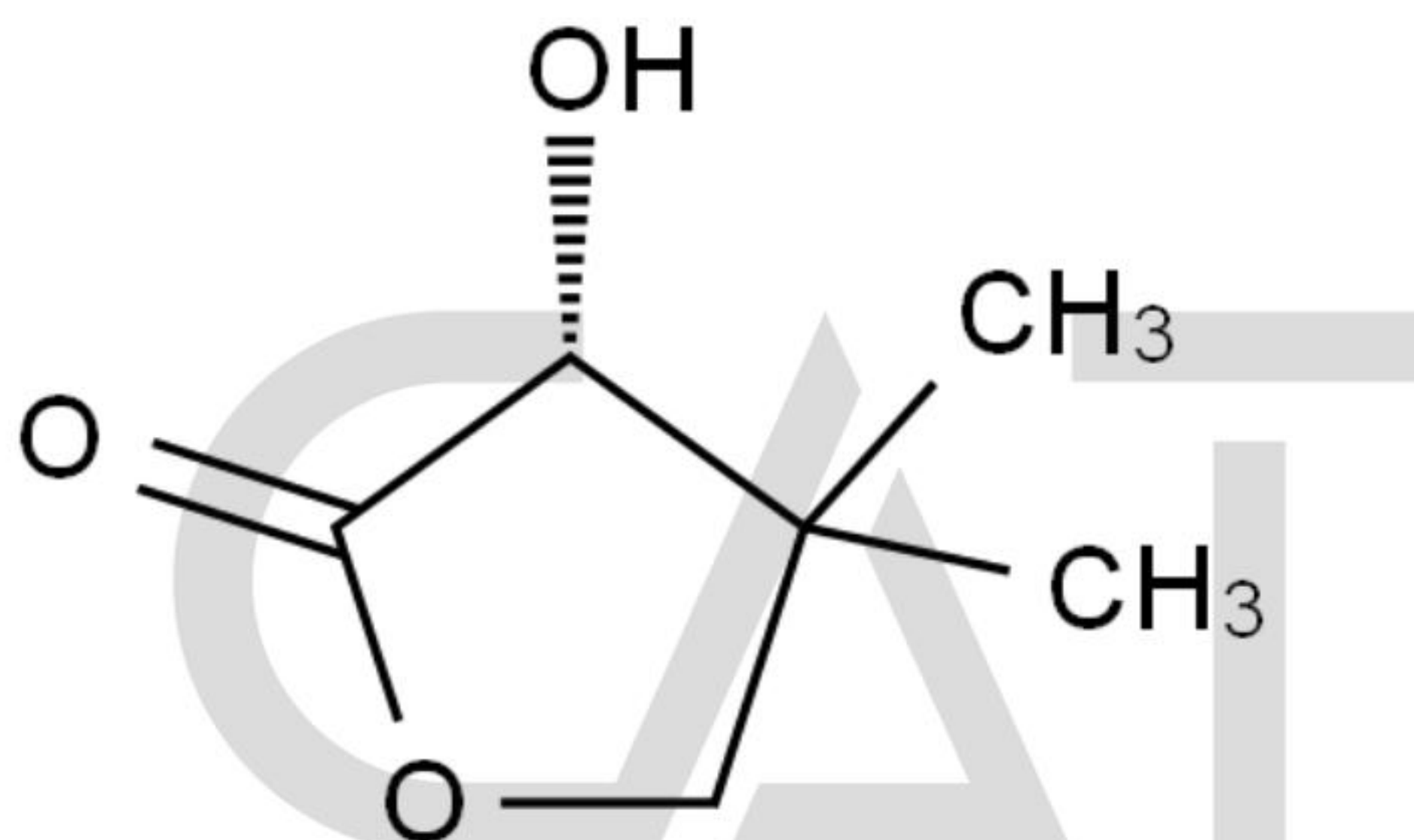
Reference Material & Standard

Product Name:	D-(-)-Pantolactone	Catalogue Number:	CCHM702584
Synonyms:	N/A	Lot Number:	1019-RB-0016
CAS Number:	599-04-2	Expiry Date:	Jan 15, 2028
Molecular Formula:	C ₆ H ₁₀ O ₃	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	130.14	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Crystalline Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	98.460%
Water Content	Karl Fischer	0.1637%
Assay		98.3%
Uncertainty		±2.0%

Comment:

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

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

Water Content is considered as absolute effect, GC purity is considered as relative effect.

2. 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: Jan 16, 2024

Date: Jan 17, 2024

Date: Jan 17, 2024



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