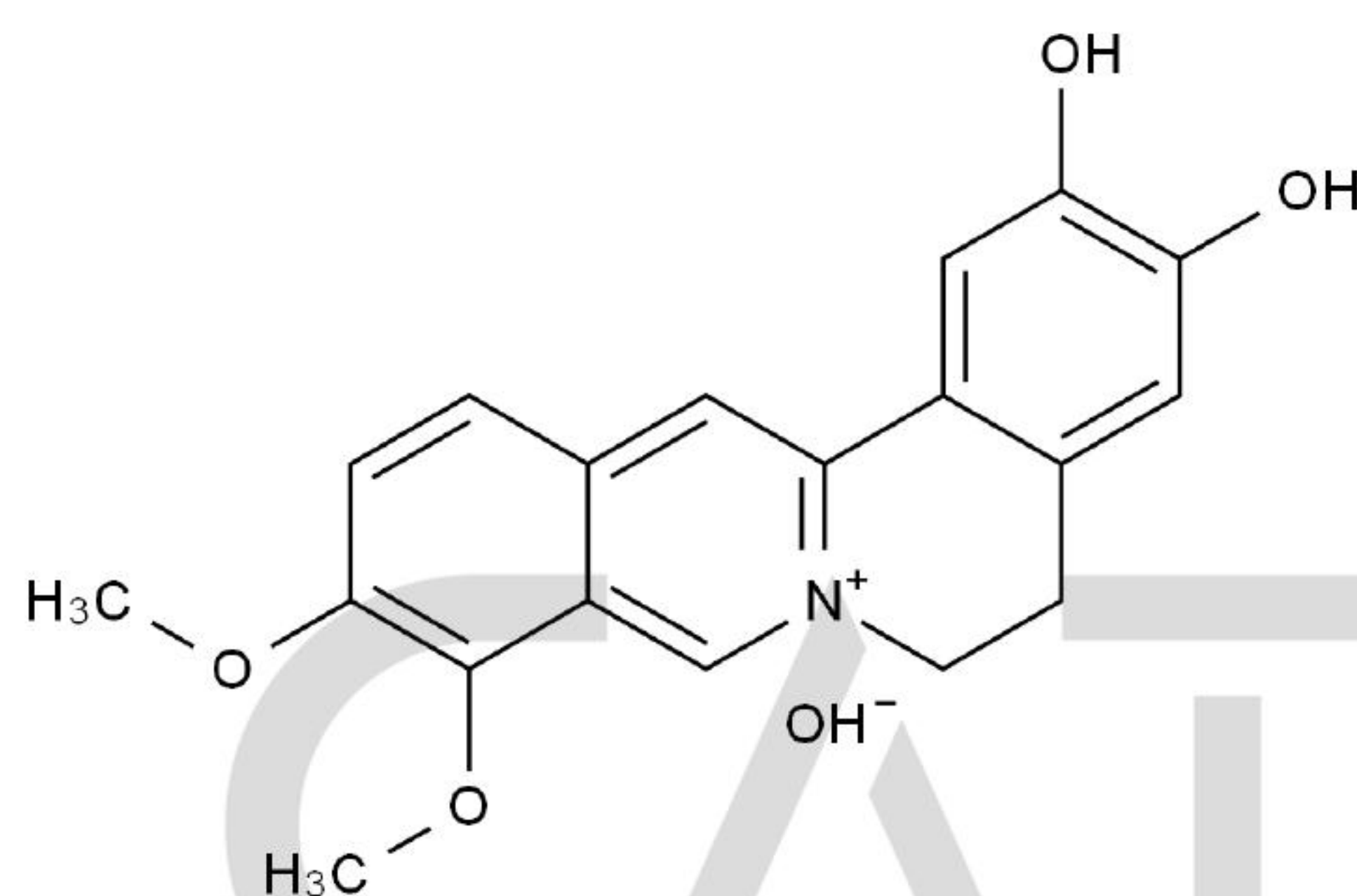


Certificate of Analysis

Reference Material & Standard

Product Name:	Demethyleneberberine	Catalogue Number:	CCPE900826
Synonyms:	N/A	Lot Number:	0408-RF-0070
CAS Number:	25459-91-0	Expiry Date:	Apr 07, 2028
Molecular Formula:	C ₁₉ H ₁₈ NO ₄ HO	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	324.35 17.01		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.092%
Loss On Drying	TGA	6.7283%
Assay		91.5%
Uncertainty		±2.0%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

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

Loss On Drying is considered as absolute effect, HPLC 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:

Prepared by:

Lisa

Reviewed by:

Hinlam

Aproved by General Manager:

David

Date: Apr 08, 2024

Date: Apr 09, 2024

Date: Apr 09, 2024

