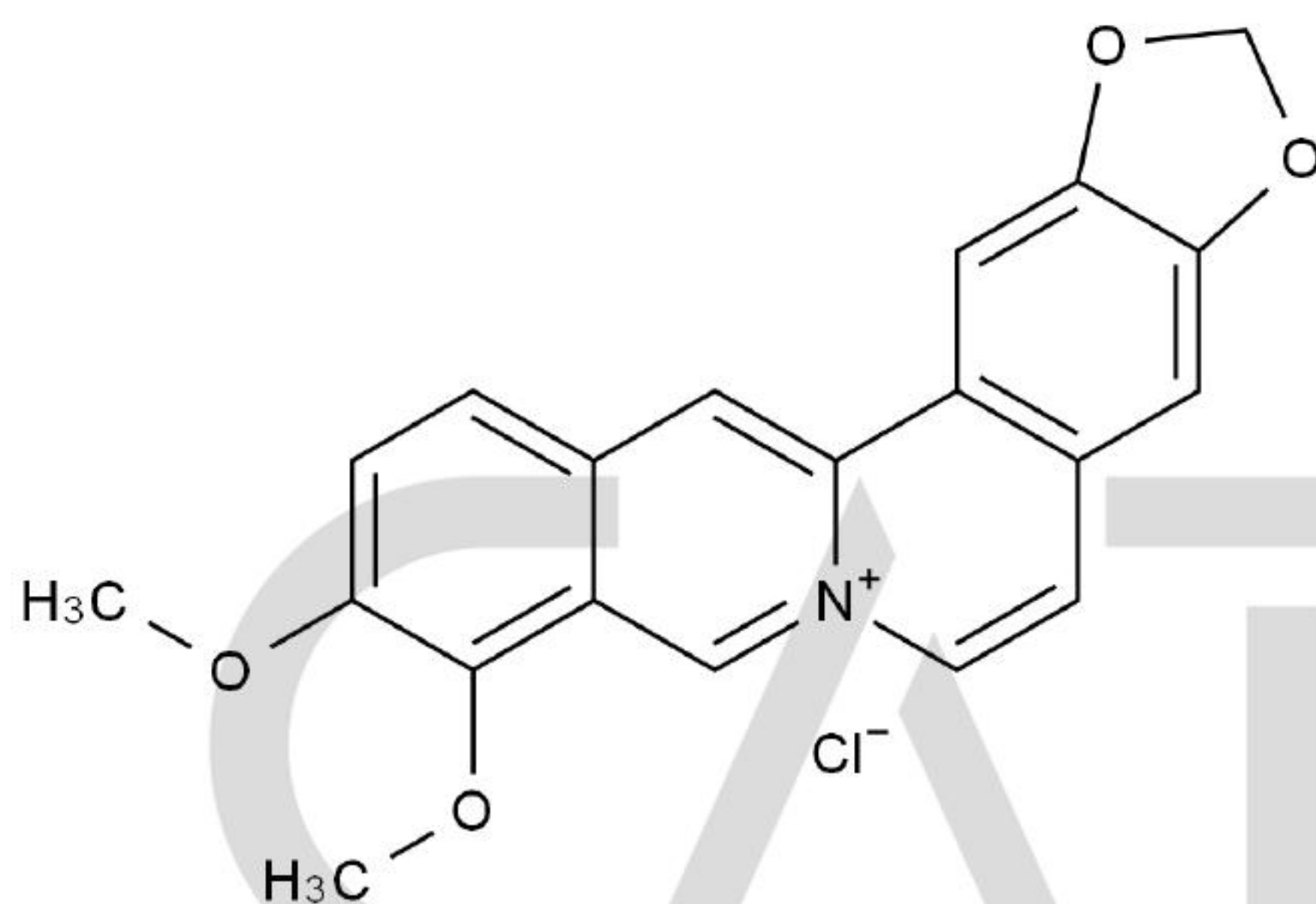


Certificate of Analysis

Reference Material & Standard

Product Name:	Berberine Impurity 13	Catalogue Number:	C4X-219913
Synonyms:	N/A	Lot Number:	0427-RH-0154
CAS Number:	55971-02-3	Expiry Date:	May 06, 2030
Molecular Formula:	C ₂₀ H ₁₆ NO ₄ Cl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	334.35 35.45	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Orange Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	95.751%
Loss on Drying	TGA	8.1409%
Assay		88.0%

Comment:

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

Assay (%) = (100% - Loss on Drying) * Purity HPLC (%) / 100%

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: May 07, 2026

Date: May 08, 2026

Date: May 08, 2026



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

Page 1 of 6



Official
WeChat