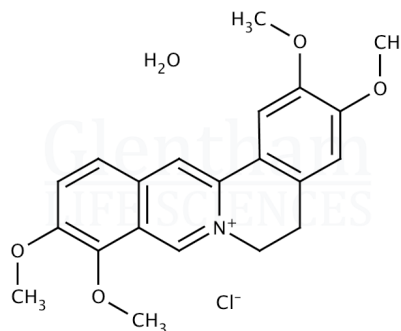


Certificate of Analysis

Product Name	Palmatine hydrochloride hydrate
Glenthams Code	GP2867
CAS Number	171869-95-7
PubChem SID	310278476
MDL Number	MFCD00150276
Additional CAS	10605-02-4 (anhyd.)
Batch Number	604GMV

Molecular Weight	387.86 (anhydrous)
Molecular Formula	C ₂₁ H ₂₂ ClNO ₄ · xH ₂ O
Storage Temp.	-20°C



Property	Specification	Batch 604GMV
Physical Description	Yellow crystals or crystalline powder	Conforms
Melting Point	≥ 198.0°C	199.2 - 200.6 °C
Heavy Metals	≤ 20ppm	Conforms
Loss on Drying	≤ 15.0%	11.8%
Assay	≥ 95.0% (anhydrous basis)	96.6%

Specification Version	v1.0
Manufacture Date	2016-05-16
Re-Test Date	2025-04-21

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glenthams.com or contact us using the details above for the current version of this document.

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