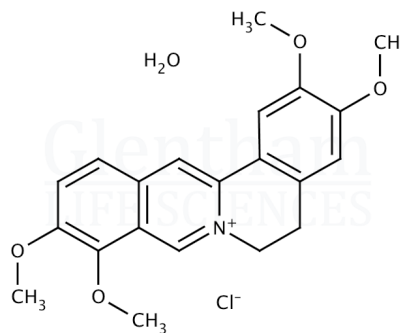


Certificate of Analysis

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 $C_{21}H_{22}ClNO_4 \cdot xH_2O$
Storage Temp. -20°C



Property	Specification	Batch 604GMV
Physical Description	Yellow crystals or crystalline powder	Conforms
Melting Point	$\geq 198.0^{\circ}C$	199.2 - 200.6 °C
Heavy Metals	$\leq 20ppm$	Conforms
Loss on Drying	$\leq 15.0\%$	11.8%
Assay	$\geq 95.0\%$ (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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