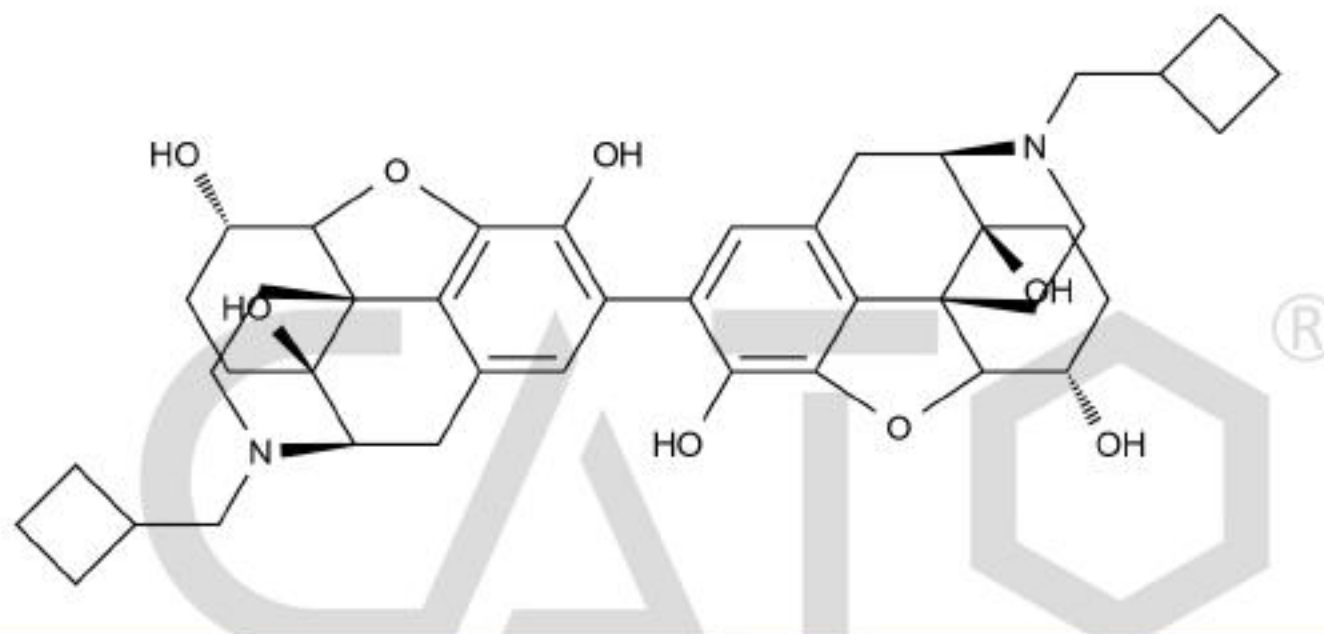


Certificate of Analysis

Reference Material & Standard

Product Name:	Nalbuphine impurity 32	Catalogue Number:	C4X-147532
Synonyms:	N/A	Lot Number:	1105-SA-7432
CAS Number:	N/A	Expiry Date:	Nov 04, 28
Molecular Formula:	$C_{42}H_{52}N_2O_8$	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	712.87		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Solid
Identification:	LC&HNMR	Confirmed
Purity:	HPLC	98.198%

Signature:

Prepared by:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Nov 05, 24

Date: Nov 05, 24

Date: Nov 05, 24



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Directions:

- 1. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*
- 2. Minimum sample size: 1mg is recommended as the minimum sample size.*
- 3. Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*
- 4. Instructions for handling and correct use: Handling in a well-ventilated place.*

Document Version:

Revision No.	Date	Reason for Revision
01	Nov 05, 24	First release.

