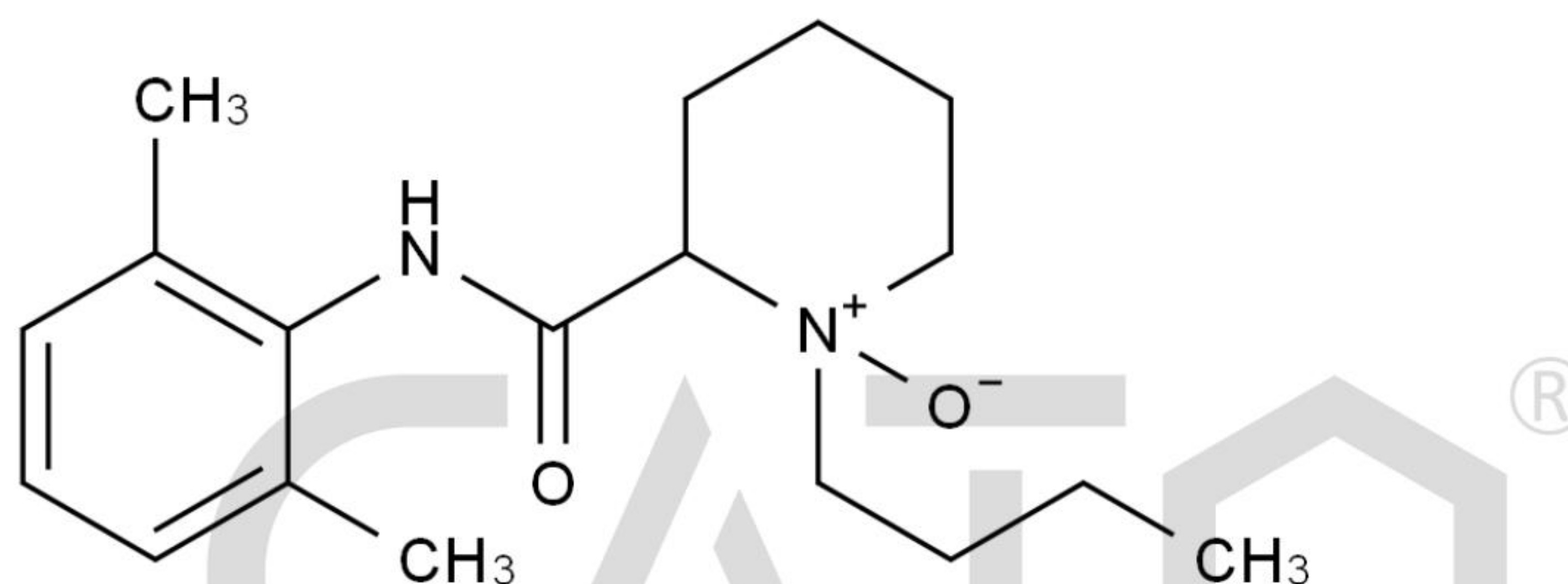


Certificate of Analysis

Reference Material & Standard

Product Name:	Bupivacaine N-Oxide	Catalogue Number:	C4X-148211
Synonyms:	1-Butyl-N-(2,6-dimethylphenyl)-2-piperidinecarboxamide 1-oxide	Lot Number:	0427-RH-0064
CAS Number:	1346597-81-6	Expiry Date:	May 14, 2030
Molecular Formula:	C ₁₈ H ₂₈ N ₂ O ₂	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	304.43	Shipping Condition:	Shipping at Room Temperature
Solubility:	Soluble in Acetonitrile and DMSO		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.213%
Residue on Ignition	TGA	0.3605%
Loss on Drying	TGA	3.5275%
Assay	qNMR	95.9%
Assay	Mass Balance	95.4%

Comment:

- The retest date of this product is May 14, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: May 15, 2026

Date: May 15, 2026

Date: May 15, 2026



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