



Certificate of Analysis

PurNic™ Nicotine - Nicotine River LLC

Product Name:	Nicotine USP	Date:	20 March 2023
CAS Number:	54-11-5	Batch Number:	NA99/345/23
Date of Manufacture:	March 2023	Date of Expiry:	February 2026

No.	Test Parameters	Results	Specifications
1	Description	Clear and colorless to slightly yellow	Clear and colorless to slightly yellow
2	Identification A by IR	Complies	The IR absorption spectrum of the sample is concordant with the spectrum of the standard.
	Identification B by HPLC	Complies	The retention time of the major peaks of the chromatogram of the sample preparation corresponds to that in the chromatogram of the standard preparation, as obtained in the organic impurities
3	Organic Impurity BY HPLC	Complies	As per USP specification
	Nicotine Related Compound A	0.02% (BQL)	NMT 0.3%
	Nicotine Related Compound B	Not detected	NMT 0.3%
	Nicotine Related Compound C	Not detected	NMT 0.3%
	Nicotine Related Compound D	0.10%	NMT 0.3%
	Nicotine Related Compound E	Not detected	NMT 0.3%
	Nicotine Related Compound F	0.07% (BQL)	NMT 0.3%
	Nicotine Related Compound G	0.03%	NMT 0.3%
	Any other unspecified impurity	0.04%	NMT 0.1%
Total impurities by HPLC	0.27%	NMT 0.8%	
4	Water	0.04%	NMT 0.5%
5	Assay Nicotine	100.0%	99% to 101%
6	Specific Rotation	-132.21°	-130° to -143°

Notes:

- Storage conditions: stored in a cool, ventilated, dry and fireproof warehouse

www.nicotinriver.com

2535 Conejo Spectrum Street Thousand Oaks CA 91320