Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs

5386 Majestic Parkway, Suite 7, Bedford Heights, OH 44146

www.gojirafc.com ● sales@gojirafc.com

Certificate of Analysis

Nicotine Ditartrate

Catalog Number: ND1001
Lot Number: 0929402r4
CAS Number: 65-31-6
Synonym(s): Nicotine Tartrate, (−)-1-Methyl-2-(3-pyridyl)pyrrolidine (+)-bitartrate salt
Molecular Formula: $C_{10}H_{14}N_2 \bullet 2C_4H_6O_6$
Molecular Weight: 462.41
Storage: 15^0C – 30^0C
Date of Manufacture: September 19, 2014
Retest Date: September 18, 2018 (new retest)

Test	Specification	Result
Appearance	White to off-white solid	Conforms
Assay	≥ 98%	98.5%
Identification (HNMR)	To match standard	Conforms
Identification (FTIR)	To match reference spectra	Conforms
Specific Rotation (c=3,H_2O)	+20.0º to +26º	+22.31º
Solubility (50mg/mL H_2O)	Clear & colorless	Conforms

Approved by: Date: January 11, 2018

John Grubb

John Grubb, PhD
Gojira Fine Chemicals, LLC
Quality Manager
Tel: 440-539-7033 Fax: 888-211-5523
john@gojirafc.com

For research purposes only. Not for drug or clinical use in humans or human food additive use.