

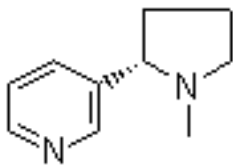
Factory's Add: Daqing High Technology Industrial Zone, Daqing City, Heilongjiang Province, China

Shanghai Company Add: 3/F, Building 6, No.1258, Xinzhu Road, Minhang District, Shanghai, China

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CERTIFICATE OF ANALYSIS

Product	Synthetic Nicotine		
Batch number	20221007	CAS No	54-11-5
Structure:			
			
Formula: C ₁₀ H ₁₄ N ₂ Molecular weight : 162.23			
Mfg. Date	October 07, 2022	Exp. Date	October 06, 2024
Analysis Date	October 08, 2022	Quantity	300 kg
Sales Company	Shanghai Haiheng Industrial Co., Ltd.		
Packing	In net weight 1kg bottle or plastic drum		

Test Items	Specifications	Results
Appearance	Colorless or yellow liquid	Conforms
Appearance of solution	Clear	Conforms
Identification	IR spectrum of the sample should be concordant with that of the standard	Conforms
Purity (by GC)	Not less than 99.50%	99.86%
Chiral purity	Not less than 98.0%	99.15 %
Heavy metal	Not more than 10ppm	8 ppm
Residual solvents	Not more than 500ppm	Not Detected
Water contact (by KF)	Not more than 0.50%	0.26%
Any unspecified impurity	Not more than 0.10%	Not Detected
Total impurities	Not more than 1.0%	0.15%
Specific optical rotation	-130° ~-143°	-138.7° ±2.5°
Conclusion: The product complies with above specifications		

QC: Du Gong

Checker: Gong Xiaoyan

Approved: Ling Bing