

陕西致一生物科技有限公司

Shaanxi zhiyi biological technology co., LTD

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CERTIFICATE OF ANALYSIS

Product Name: Nicotine
CAS No: 54-11-5
Lot Number: zhii20161001
Quantity: 500KG
Manufacturing Date : 1 October.2016
Retest Date: Retest before use

NO:zhii20161001

Inspection Characteristic	Specification	Test result
Appearance	Colorless or brownish viscous liquid	Colorless viscous liquid
Identification		
A.Specific optical Rotation	-130°to -170°	-150°
B.IR:	Comparing with the Ph.Eur.reference Spectrum of nicotine	comforms
C.UV:	λ_{max} 257 to 261 nm	λ_{max} = 259nm
Appearance of solution:	Clear	Clear
	Not more intense or colour than Y ₅ , BY ₅ or R ₅	Not more than Y ₅ ,
Water, w/w%:	0.5 max	0..16
Residual solvents		
Ethanol,w/w%:	0.5	0.041
Hexane,w/w%:	0.029	0.0025
Heavy Metals,ppm:	10max	Comforms
Assay,Non-aqueous titration, w/w%:	99.9%-101.0%	99.9%
Sulphated ash,w/w %:	0.1max	0.01
Related Substances		
Nicotine-trans-N-Oxide,area %	0.2 max	Not detected

Nicotine-cis-N-Oxide,area %	0.2 max	Not detected
Myosmine,area%:	0.5 max	Not detected
Continine,area%	0.2 max	Not detected
β -nicotyrine,area%	0.2 max	Not detected
Nornicotine, area%	0.5 max	Not detected
Anabasine.area%	0.3 max	Not detected
Anatabine,area%	0.3 max	Not detected
Any unspecified impurity,area%:	0.1 max	0.02
Total Nicotine—N—Oxides, area%	0.3 max	Not detected
Total Impurities(Specified and unspecified), area%	1.0 max	0.5
Storage	Under nitrogen, in an airtight container, protected from light.	
Shelf life	1 years when properly stored	

HULONG

Analys

MAJING

Corrector

WANGYU

Quality Assurance Officer