

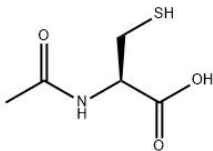


杭州泽尔瑞化学有限公司

HANGZHOU ZEERRUI CHEMICAL CO., LTD

Certificate of Analysis

COA No:ZER11911011

Product Name	N-Acetyl-L-Cysteine
CAS No	616-91-1
Molecular Formula	
Molecular Weight	163.19
Batch No	ZER191101
REFERENCE STANDARD	USP-40
Manufacturing date	2019-11-01
Retest date	2022-11-01

Index Name	Specification	Result
Appearance	White crystals or crystalline powder	Conforms
Assay	98.0%~102.0%	99.4%
Identification	Meets the requirements	Conforms
Specific rotation $[\alpha]_D^{25}$	+21.0°~+27.0°	+25.9°
Loss on drying	≤1.0%	0.17%
Residue on ignition	≤0.5%	0.05%
pH	2.0~2.8	2.3
Heavy metals(Pb)	≤0.001%	<0.001%
Chromatographic purity	Not more than 0.5% of any individual impurity is found; Not more than 2.0% of total impurities is found	Conforms
Conclusion	Conforms to the standard of enterprise	

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CHIEF:

CHECK:



INSPECTION:

