

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-07 19:18:05

Date of Next Testing: 2026-12-06 19:18:05

Product Name: **PIPES Monosodium salt(PIPES-Na)**

CAS Number: 10010-67-0

Specifications & Purity: $\geq 99\%$

Lot #: L2205044

SKU #: **P113024**

Version: **1**

Analysis #: **132710**

Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-5 (ppm)	0.57170 ppm
Water by Karl Fischer	0-2 (%)	1.78450 %
Purity (dry basis)	98.5-101.5 (%)	99.31000 %
UV absorbance at 290nm (20%w/w in 0.1N NaOH)	0-0.1	0.10000
Appearance (P113024)	white crystalline powder	white crystalline powder
Solubility in NaOH , clear colorless solution at 10g plus 40ml	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager