

ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-30 16:54:20
Date of Next Testing: 2028-12-29 16:54:20
Product Name: **Piperazine-1,4-bis(2-hydroxypropanesulfonic Acid) Dihydrate (POPSO)**
CAS Number: 68189-43-5
Specifications & Purity: $\geq 99\%$
Lot #: L2427128
SKU #: **P105272**
Version: **1**
Analysis #: **294423**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-5 (ppm)	0.00000 ppm
Purity(Neutralization titration)	98.5-101.5 (%)	98.86000 %
Loss on drying	8-10 (%)	8.24000 %
Absorbance(20% in 1M NaOH,260nm)	0-0.15	0.13900
Appearance (P105272)	white crystalline powder	white crystalline powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in NaOH , clear to slightly hazy,colorless, 2g/10 ml	pass	Pass



John Su
QA & QC Manager