

Certificate of Analysis

Date of Testing: 2023-02-13 14:54:15

Date of Next Testing: 2027-02-12 14:54:15

Product Name: **HEPPS**

CAS Number: 16052-06-5

Specifications & Purity: $\geq 99.5\%$ (T)

Lot #: B2306003

SKU #: **H110900****Analysis: 175778**

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-5 (ppm)	1.10 ppm
Ammonia (NH ₃)	0-0.1 (%)	0.04 %
Purity (Titration by NaOH)(anhydrous)	99.5-100.5 (%)	100.45 %
Water by Karl Fischer	0-0.1 (%)	0.03 %
UV Absorbance 290nm(33%,H ₂ O)	0-0.1	0.06
Appearance (H110900)	white to off-white crystalline powder	white to off-white crystalline powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless to Light Yellow Clear25g/50 ml	pass	Pass

John Su
QA & QC Manager