

## Certificate of Analysis

Date of Testing: 2022-11-11 19:02:59  
Date of Next Testing: 2026-11-10 19:02:59  
Product Name: **HEPPS**  
CAS Number: 16052-06-5  
Specifications & Purity: for cell culture, ≥99.5%(T)  
Lot #: K2208112  
SKU #: **H110901**  
Analysis: **155177**

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-5 (ppm)	2.40 ppm
A260(1M,H2O)	0-0.1	0.05
Assay(Titration)	99.5-100 (%)	99.60 %
Endonuclease Detection	0-0.1 (EU/g)	0.05 EU/g
Ignition Residue (as sulfate)	0-0.1 (%)	0.05 %
standard plate count	0-100 (IU/g OR u/g)	80.00 IU/g OR u/g
A280(1M,H2O)	0-0.1	0.00
Appearance (H110901)	Colorless Liquid	Colorless liquid
Cell Culture Test	pass	Pass
DNases	none detected	none detected
Endonuclease Detection	None Detected	none detected
phosphatases	none detected	none detected
proteases	none detected	none detected
RNases	none detected	none detected
Solubility in H2O , soluble , 1M , 20°C, clear, colorless	pass	Pass



John Su  
QA & QC Manager