

## Certificate of Analysis

Date of Testing: 2024-10-21 17:21:15

Date of Next Testing: 2028-10-20 17:21:15

Product Name: **HEPPS**

CAS Number: 16052-06-5

Specifications & Purity: for cell culture, ≥99.5%(T)

Lot #: J2416786

SKU # **H110901**

Version **1**

Analysis #: **348457**

| Parameter                                                              | Limit Values             | Result                   |
|------------------------------------------------------------------------|--------------------------|--------------------------|
| Heavy metal (as Pb)                                                    | 0-5 (ppm)                | 0.00 ppm                 |
| A260(1M,H <sub>2</sub> O)                                              | 0-0.1                    | 0.04                     |
| Endonuclease Detection                                                 | 0-0.1 (EU/g)             | 0.10 EU/g                |
| Ignition Residue (as sulfate)                                          | 0-0.1 (%)                | 0.00 %                   |
| standard plate count                                                   | 0-100 (IU/g OR u/g)      | 23.10 IU/g OR u/g        |
| A280(1M,H <sub>2</sub> O)                                              | 0-0.1                    | 0.03                     |
| Assay(Titration)                                                       | 99.5-100 (%)             | 99.51 %                  |
| Appearance (H110901)                                                   | White Crystalline Powder | white crystalline powder |
| DNases                                                                 | none detected            | none detected            |
| phosphatases                                                           | none detected            | none detected            |
| proteases                                                              | none detected            | none detected            |
| RNases                                                                 | none detected            | none detected            |
| Solubility in H <sub>2</sub> O , soluble , 1M , 20°C, clear, colorless | pass                     | Pass                     |
| Cell Culture Test                                                      | pass                     | Pass                     |
| Endonuclease Detection                                                 | None Detected            | none detected            |



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager