

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Specification Sheet

Product Name: **HEPES**  
Specifications & Purity: Animal Free,for cell culture,≥99.5%,Ultra-low endotoxin  
SKU # **H774625**

| Parameter                               | Limit Values              |
|-----------------------------------------|---------------------------|
| Aluminium(Al)                           | 0-5 (ppm)                 |
| Antimony(Sb)                            | 0-5 (ppm)                 |
| Appearance(H774625Z)                    | White Free Flowing Powder |
| Arsenic(As)                             | 0-3 (ppm)                 |
| Barium(Ba)                              | 0-5 (ppm)                 |
| Bioburden                               | 0-100 (cfu/g)             |
| Bismuth(Bi)                             | 0-5 (ppm)                 |
| Cadmium(Cd)                             | 0-5 (ppm)                 |
| Calcium(Ca)                             | 0-30 (ppm)                |
| Chromium(Cr)                            | 0-5 (ppm)                 |
| Cobalt (Co)                             | 0-5 (ppm)                 |
| Copper(Cu)                              | 0-5 (ppm)                 |
| Cytotoxicity                            | Pass                      |
| DNase-Nickase                           | Pass                      |
| DNase-Endo/Exonuclease                  | Pass                      |
| Endotoxin                               | 0-50 (EU/g)               |
| Infrared spectrum                       | Conforms to Structure     |
| Iron(Fe)                                | 0-5 (ppm)                 |
| Lead(Pb)                                | 0-5 (ppm)                 |
| Lithium(Li)                             | 0-5 (ppm)                 |
| Magnesium (Mg)                          | 0-5 (ppm)                 |
| Manganese(Mn)                           | 0-5 (ppm)                 |
| Molybdenum(Mo)                          | 0-5 (ppm)                 |
| Nickel(Ni)                              | 0-5 (ppm)                 |
| pH ( 1.0% aqueous )                     | 4.7-5.5                   |
| Protease Detection                      | Pass                      |
| Residue on Ignition                     | 0-0.1 (%)                 |
| RNase Detection                         | Pass                      |
| Solubility1.0 M aqueous,Colorless Clear | pass                      |
| UV Absorbance 260nm(1M aqueous)         | 0-0.05                    |
| UV Absorbance 280nm(1M aqueous)         | 0-0.04                    |
| Water by Karl Fischer                   | 0-0.5 (%)                 |



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**Parameter**

Yeast and Mold

Zinc(Zn)

Assay(Titration by NaOH)

**Limit Values**

0-100 (CFU/g)

0-5 (ppm)

≥99.5 (%)