

CERTIFICATE OF ANALYSIS

Product Name: HEPES, N-(2-Hydroxy ethyl)-Piperazine ethane Sulfonic acid

Chemical Structure:



Lot Number: HPS1150912-2

CAT Number: APL-OCPH-0007365

CAS Registry Number: 7365-45-9

Manufacture Date: 12/2021

Expiry Date: 05/2024

Molecular Formula: C₈H₁₈N₂O₄S

Molecular Weight: 238.3

Storage: RT

Analysis Data

Item	Specification	Results
Appearance	White Powder	Pass
Solubility (0.1M in H ₂ O)	Clear and Complete	Pass
Assay, Titration	≥ 99.0 %	100.0 %
Pka (25°C)	7.35 to 7.75	7.55
pH (5% in H ₂ O, 25°C)	5.0 to 6.5	5.4
Moisture (LOD, %)	≤ 1.0 %	0.1 %
UV (1M in H ₂ O) A260nm	≤ 0.05	0.01
UV (1M in H ₂ O) A280nm	≤ 0.04	0.01

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Jennifer LaBrecque

Jennifer LaBrecque 01/2022
Quality Assurance Manager

Conclusion: The above product meets the specifications of APOLO