

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	37111
<b>Product</b>	<b>4-(2-Hydroxyethyl)-1-piperazineethanesulfonic</b>
<b>Lot Number</b>	001135-0520907
	HEPES
<b>CAS Number</b>	7365-45-9
<b>Molecular Formula</b>	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S
<b>Molecular Weight</b>	238.3

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear and complete solution (1M in H <sub>2</sub> O)
<b>Heavy Metals</b>	< 5 ppm (as Pb)
<b>pH</b>	5.3
<b>pKa</b>	7.55 at 25 °C
<b>UV Ratios</b>	UV (1M in water) A260 nm : 0.01 UV (1M in water) A280 nm : 0.0 UV (33% in water) A290 nm : 0.01 UV (1M in water) A405 nm : 0.0
<b>Loss on Drying</b>	0.3% (140 °C, 30 min.)
<b>RNase, DNase, Protease</b>	Not detected
<b>Sulfated Ash</b>	0.0%
<b>Assay by titration</b>	100.2% (dried basis)
<b>Grade</b>	Molecular biology grade
<b>Storage</b>	Store at RT
<b>Remarks</b>	See material safety data sheet for additional information For laboratory use only

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



**Bala Kumar**  
Quality Control Manager