



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	BIO-332
Lot Number	001690-2015040701
Product	Piperazine-N,N'-bis(2-ethanesulfonic acid) 1.5 sodium salt 1,4-Piperazinediethanesulfonic acid sesquisodium salt PIPES sesquisodium salt
CAS Number	100037-69-2
Molecular Formula	C ₁₆ H ₃₃ N ₄ O ₁₂ S ₄ Na ₃
Molecular Weight	670.7

Appearance	White crystalline powder
Solubility	Clear colorless solution (10% in Water)
Heavy Metals	< 5 ppm
pH	6.72 (1% solution in Water)
Loss on Drying	0.26%
Assay by titration	99.86%
Storage	Store at RT
Additional Information	Ultraviolet absorbance @ 260 nm (10% aq. solution): 0.043% Ultraviolet absorbance @ 280 nm (10% aq. solution): 0.027%

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