



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-228311
Lot Number: SAMPLE
Product Name: Homopiperazine-1,4-bis(2-ethanesulfonic acid)
CAS Number: 202185-84-0
Molecular Formula: $C_9H_{20}N_2O_6S_2$
Molecular Weight: 316.39

Test	Specification	Result
Appearance	White powder	Complies
Purity	$\geq 98.0\%$	99.3%
Purity (Sodium Hydroxide Titration)	$\geq 92.0\%$	95.9%
pH	2.7 - 3.1 in 1.0% aqueous	2.8 in 1.0% aqueous
Solubility	Clear, colorless solution in 1% aqueous	Clear, colorless solution in 1% aqueous
Absorbance (1)	≤ 0.04 at 260 nm in 1% aqueous	0.00 at 260 nm in 1% aqueous
Absorbance (2)	≤ 0.02 at 280 nm in 1% aqueous	0.00 at 280 nm in 1% aqueous
Infrared Spectrum	Consistent with reference	Complies
Water Content (KF)	$\leq 9.0\%$	3.4%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

Santa Cruz Biotechnology, Inc. 800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 62221 4503 0 www.scbt.com