



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-252972  
Lot Number: SAMPLE  
Product Name: Colloidal silica, 30% susp. in H<sub>2</sub>O  
CAS Number: 7631-86-9  
Molecular Formula: SiO<sub>2</sub>  
Molecular Weight: 60.08

Test	Specification	Result
Appearance	Colorless to opalescent (may have a blue cast) viscous liquid	Colorless viscous liquid
Surface area	198 - 258 m <sup>2</sup> /g	216 m <sup>2</sup> /g
Assay	29.0 - 31.0% (SiO <sub>2</sub> )	29.9%
Identification (ICP)	Consistent with Silicon component	Complies
pH	7.8 - 8.6 at 25 °C	8.1
Specific Gravity	1.197 - 1.217 at 60 °F	1.205
Viscosity	≤ 25.0 cps	11.0 cps
Transmittance	≥ 62.0%	86.4%
Alkalinity	0.097 - 0.124% Na <sub>2</sub> O	0.106%
Ratio	250 - 300 (SiO <sub>2</sub> /Na <sub>2</sub> O)	282
Sulfate	≤ 0.020% as Na <sub>2</sub> SO <sub>4</sub>	0.000%

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](http://www.scbt.com)