



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-233910
Lot Number: SAMPLE
Product Name: Barium hydroxide hydrate
CAS Number: 40226-30-0
Molecular Formula: BaH_2O_2
Molecular Weight: 171.34 (anhydrous basis)

| Test | Specification | Result |
|-------------------------------|---|----------------|
| Appearance | White powder or crystals or granules or chunks | White crystals |
| Assay | $\leq 2.0\%$ (BaCO_3 by HCl) | 0.1% |
| Identification (ICP) | Consistent with Barium component | Complies |
| Purity (Titration) | 98.0 - 102.0% (with HCl, $\text{Ba}(\text{OH})_2 \cdot x\text{H}_2\text{O}$) | 99.5% |
| Purity (Trace Metal Analysis) | 99.995% | Complies |
| Trace metal analysis | ≤ 55.0 ppm | 3.8 ppm |
| Calcium | | 1.6 ppm |
| Lead | | 0.5 ppm |
| Strontium | | 1.7 ppm |

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