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7212 ACC Blvd. | Raleigh, NC 27617 | 800.234.7837

Certificate of Analysis

Chloride in Soil

Catalog Number: SCQC-906
Lot Number: S0222
Manufacture Date: 01/27/22
Certified Date: 01/31/22

Expiraton Date: 03/31/2024
Matrix: Soil
Hazards: Irritant

Analyte	Study Mean mg/Kg	Certified Concentration mg/Kg	Acceptance Limits mg/Kg
Chloride	208	225 ± 2.09	136 - 280

This quality control sample was manufactured by NSI Lab Solutions following quality procedures meeting the requirements of ISO 9001, ISO 17025, and ISO 17034. Acceptance limits are set at current NELAC standards. The study mean is set at the mean of an interlaboratory proficiency testing study with outlier rejection. This sample is intended to be used to validate analytical methods, for detection limit studies, and analyst proficiency testing.

Storage Instructions For Use

Store this sample at 2-8°C.

Mix well. Open and subsample in a fume hood.

No modification to the sample prior to sub-sampling is necessary.

The soil CRM is to be extracted and analyzed using an appropriate extraction and analytical method.

Report results as mg/kg assuming 100% solids. No dry weight correction is required.
Do not correct the analytical results for matrix spike recovery bias.

Traceability Informatio

Analyte Source Materials: The highest purity analyte source materials are used in the manufacture of this sample. Analyte source material purity and associated uncertainty has been analytically verified against appropriate NIST SRMs,

Balance: All analytical balances are calibrated on a semiannual basis by an ISO 17025 accredited calibration laboratory and are traceable to NIST. Traceable Calibration Certificate available upon request.

All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request.

Thermometer: All thermometers are NIST traceable through thermometers that are calibrated annually by an ISO 17025 accredited calibration laboratory.

Glassware: All glassware used in the manufacture of our samples is Class A. An in-house standard operating procedure is used to verify all glassware prior to it being placed into service. Volumetric pipetors are calibrated every four months by an ISO 17025 accredited calibration laboratory.

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Homogeneity/Stability/Expiration

This quality control sample was thoroughly mixed in production. Batch homogeneity was established through analyses of samples chosen at random. The stability of this quality control sample is based on short-term and long-term monitoring of the certified concentration. The expiration date is guaranteed to be valid from the manufacture date and is based on results of long-term monitoring.

Ucertainty

The ± uncertainty associated with the certified concentration is the expanded uncertainty at 95% confidence interval (CI) with K=2. This expanded uncertainty incorporates contributions from manufacturing, homogeneity, and stability.

Ewart Morris

Ewart Morris, Inorganics Technical Manager