

分析证明书

土壤中 氯化物



产品编号: SCQC-906
批号: S1021
生产日期: 2021-10-12
分析日期: 2021-10-14

保质期: 2023-10-31
基质/溶剂: 土壤
危害: 刺激

项目	能力验证 统计值 mg/Kg	确认值 mg/Kg	接受区间 mg/Kg
氯化物	918	881 ± 8.20	653 - 1170

该质控样品在配制过程符合 ISO9001, ISO17025及 ISO17034 认证
接受区间根据当前美国能力验证行业标准设置
能力验证统计值 为 剔除不合格回报值后的实验室间能力验证结果统计值
该样品可用于: 方法验证、检测极限研究、能力验证等

储存及使用说明

2-8℃保存

混匀, 通风橱中取样
选用适当的方法 提取及分析各项目
无需干燥校准, 基于100%固体, 以mg/Kg为单位回报结果
不要用基质加标回收率校正分析结果

溯源

原料: 分析项目原料选用可用的最高纯度原料用于配制该样品。如有相应的 NIST标准物质可用, 原料纯度及不确定度会与其对照分析校验

天平: 所有天平按ISO17025校准实验室认证要求每季度校准一次, 溯源至NIST。所有天平每天按照内部标准操作程序查验, 查验所用砝码按17025认证要求每年校准一次。

温度计: 所有温度计溯源至 NIST, 每年校准一次

玻璃器皿: 此样品配制过程中涉及的所有玻璃器皿为 A 级。所有玻璃器皿启用前经过内部标准操作程序校验。移液器按17025认证要求每月校准一次。

均匀性/稳定性/保质期

该标物生产过程中已充分混匀。批次均匀性按要求随机取样分析建立。该标物稳定性基于短期及长期对确认浓度的监测结果。保质期基于长期监测结果确保保质期内有效

不确定度

不确定度为 95%置信区间扩展系数 K=2.

ISO 9001:2015 UL Registered Firm – Certificate # 10002343 QM15



ISO 17034:2016 - Certificate AR-1571



ISO/IEC 17043:2010 - Certificate AP-1693



ISO/IEC 17025:2017 - Certificate AT-169C

Certificate of Analysis

Chloride in Soil

Catalog Number: SCQC-906
Lot Number: S1021
Manufacture Date: 10/12/21
Certified Date: 10/14/21

Expiration Date: 10/31/2023
Matrix: Soil
Hazards: Irritant

<u>Analyte</u>	<u>Study Mean</u> mg/Kg	<u>Certified Concentration</u> mg/Kg	<u>Acceptance Limits</u> mg/Kg
Chloride	918	881 ± 8.20	653 - 1170

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.

Uncertainty

The \pm 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