

# 分析证明书

## 土壤中 甲基汞 质控样



产品编号: SCQC-122  
批号: 200303  
生产日期: 2020-01-29

保质期: 2025-01-31  
基质/溶剂: 土壤  
危害: 刺激

项目	CAS	确认值 mg/Kg	接受区间 mg/Kg
氯化甲基汞 (以HgCH <sub>3</sub> 计)	115-09-3	10.0 ± 0.046	4.00 - 16.0

该质控样品配制过程符合 ISO9001, ISO17025及 ISO17034 认证  
接受区间根据当前国际能力验证行业标准设置  
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°C 保存

1. 该样品必须整体使用
2. 回温至室温
3. 瓶中样品全部转入萃取容器, 冲洗样品瓶, 冲洗液一并倒入萃取容器中
4. 以10g样品量, mg/Kg为单位回报结果。不需要干燥校正。

### 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

## Chloromethyl Mercury in Soil

**Catalog Number:** SCQC-122  
**Lot Number:** 200303  
**Manufacture Date:** 01/29/2020

**Expiration:** 01/31/2025  
**Matrix:** Soil  
**Hazards:** Irritant, Toxic, Carcinogen

<u>Analyte</u>	<u>CAS</u>	<u>Gravimetric Concentration (mg/kg)</u>	<u>Acceptance Limits (mg/kg)</u>
Chloromethyl Mercury as HgCH <sub>3</sub>	115-09-3	10.0 ± 0.046	4.00 - 16.0

This certified reference material (CRM) was manufactured and certified by NSI Lab Solutions according to quality procedures meeting our accreditation requirements of ISO 17034:2015 and ISO/IEC 17025:2017. Our certificates and scopes of accreditation may be viewed at [www.anab.org](http://www.anab.org).

### Packaging, Storage, Instructions For Use

This CRM is packaged in a sealed container and must be stored at 2°C to 8°C. To use this CRM, allow it to reach room temperature.

This sample has been designed to be totally used. Do not subsample since intra-sample homogeneity cannot be assured. Transfer the entire contents of the sample vial and rinse the vial with 2 small aliquots of extraction solvent adding rinsates to the extraction vessel. Complete the analysis according to your normal.

Report results in units of mg/kg based on a 10g sample size. No dry weight correction is needed.

**Certified concentration is based upon the gravimetric/volumetric true value when prepared according to instructions.**

**Acceptance limits are based upon USEPA solid and chemical Interlaboratory studies.**

### Traceability Information

**Analyte Source Materials:** The highest purity analyte source materials are used in the manufacture of this standard. The actual purity is referenced above.

**Method:** This CRM was verified Volumetrically/Gravimetrically

**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.

**Catalog Number:** SCQC-122  
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**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 standards 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.

### Intended Uses

- Calibration of analytical instruments
- Validation of analytical methods
- Preparation of working level reference materials, i.e. "check standards"
- Detection limit studies

### Homogeneity

This standard was thoroughly mixed in production and is guaranteed homogenous.

*Ken Grzybowski*

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Ken Grzybowski, Organics Department Manager

*Mark Hammersla*

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Mark Hammersla, President