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分析证明书

微囊藻毒素-LR 质控样

产品编号：CQC-201
产品批号： 200729

保质期： 2023-07-31
溶剂：甲醇
危险性：易燃， 刺激

项目	CAS	纯度	确认值（ug/L）	接受区间（ug/L）
微囊藻毒素-LR	101043-37-2	100%	15.2 ± 0.14	12.16 - 18.24

包装、储存及使用说明

该样品以安瓿瓶密封包装，需 -10～-20℃ 保存。
使用时要回温至室温。
上下翻转混匀， 检查是否有沉淀， 如有，可用超声溶解。按需取适量使用。

1，回温至室温。
2，100mL Class A 容量瓶中加入试剂水（不含有机物）至刻度。
3，打开安瓿瓶，准确移取1.0mL浓缩液至容量瓶中开阔区域。
4，定容并混匀。
5，所得即为要分析的样品。

确认值根据质量浓度设置。接收区间根据USEPA 饮用水、非饮用水能力验证标准设置。

实验室溯源

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。实际浓度如上列出。

方法: 该样品以质量法验证

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: 所有温度计按17025认证要求每年校准一次，溯源至NIST。

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。

用途

• 分析方法验证
• 检测极限研究
• 分析员能力验证

均匀性

此样品生产过程中已春分混匀，确保其均匀性。

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Certificate of Analysis

Microcystin-LR QC

Catalog Number: CQC-201
Lot Number: 200729
Manufacture Date: 07/29/2020

Expiration: 07/31/2023
Solvent: P&T Methanol
Hazards: Irritant, Flammable

Analyte	CAS	Analyte Purity	Gravimetric Concentration (ug/L)	Acceptance Limits (ug/L)
Microcycstin-LR	101043-37-2	100%	15.2 ± 0.14	12.16 - 18.24

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.

Packaging, Storage, Instructions For Use

This CRM is packaged in a flame-sealed ampule and must be stored at 2°C to 8°C. To use this CRM, allow it to reach room temperature. Mix it gently by inversion. Inspect for precipitate. If present, sonicate for a few minutes to redissolve. Open the ampule and withdraw an aliquot appropriate for your application.

Allow the ampule to equilibrate to room temperature. Fill a 100 mL Class A flask with about 900 mL organic free reagent water. Pipet exactly 1.0 mL of the ampule concentrate into the flask. Bring the flask to volume with reagent water and mix well. This represents the sample for analysis by your normal method. Report in units of ug/L.

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

Acceptance limits are based upon USEPA Drinking Water and Non-Potable Water 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

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.

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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 CRM was thoroughly mixed in production and is guaranteed homogenous.

Ken Grzybowski

Ken Grzybowski, Organics Department Manager

Mark Hammersla

Mark Hammersla, President