

Certificate of Analysis

Diesel Range Organics QC Sample

Catalog Number: QCO-101
Lot Number: N0417
Manufacture Date: 02/22/2017
Certified Date: 02/28/2017

Expiration: 04/30/2019
Solvent: Methanol
Hazards: Flammable, Irritant

<u>Analyte</u>	<u>Study Mean</u> (ug/L)	<u>Certified Concentration</u> (ug/L)	<u>Acceptance Limits</u> (ug/L)
Diesel Range Organics	2927	3890	988-4880

This quality control sample was manufactured by NSI Lab Solutions following quality procedures meeting the requirements of ISO 9001, ISO 17025, and ISO 34. 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.

Fill a 1000 mL Class A volumetric flask to volume with carbon-filtered, reagent water at room temperature. Carefully open the ampule and immediately withdraw 1.0 mL of the solution. Quickly inject the 1.0 mL aliquot into the reagent water in the expanded area of the volumetric flask. Stopper the flask and mix the sample by inverting the flask 3 times. Immediately analyze the diluted sample by your normal procedures.

Traceability Information

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, where available.

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.

ISO 9001:2008 UL Registered Firm - Certificate # 10002343 QM08



ISO Guide 34:2009 - Certificate AR-1571



ISO/IEC 17043:2010 - Certificate AP-1693



ISO/IEC 17025:2005 - Certificate AT-1690

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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.

Homogeneity

This quality control sample was thoroughly mixed in production. Batch homogeneity was established through analyses of samples chosen at random.

Stability/Expiration

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.

Kenneth Grzybowski

Kenneth Grzybowski, Technical Organic Manager

Mark Hammersla

Mark Hammersla, President

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