



## CERTIFICATE OF ANALYSIS

**Agilent Product Name:** B100 Biodiesel Blank

**Agilent Part No:** 5190-8719

**Lot No:** 0099038814

### Product Specifications

**Matrix:** B100 Biodiesel (100% Biodiesel)

**Intended Use:** This solution is intended for use as a calibration blank solution or diluent for the analysis of metals and sulfur in biodiesel products using inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), atomic absorption spectroscopy (flame AAS or GFAAS), microwave plasma atomic emission spectroscopy (MP-AES), rotating disc electrode atomic emission spectroscopy (RDE-AES), and other techniques for elemental analysis.

**Certification & Traceability:** This solution was prepared under a quality management system that is accredited to **ISO/IEC 17025**, and registered to **ISO 9001**. It was analyzed for sulfur by ASTM D4045 with traceability to NIST SRM 2770. It was also analyzed for trace metals by inductively coupled plasma optical emission spectroscopy (ICP-OES), with traceability to NIST SRM 1085b.

**Trace Concentrations ( $\mu\text{g/g}$ )**

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| Ca | <1 | K  | <1 | P  | <1 |
| Cu | <1 | Mg | <1 | S  | <1 |
| Fe | <1 | Na | <1 | Zn | <1 |

**Instructions for Use:** Agilent recommends that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. The solution should be kept tightly capped. Store at controlled room temperature per USP 35 (10.30.60). Do not freeze, heat, or expose to direct sunlight. Minimize exposure to moisture or high humidity.

**Period of Validity:** Agilent ensures the accuracy of this solution until the expiration date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

**Sample lot approver:**

Chuck Goudreau, Certifying Officer

**Date of release:** 8 November 2018

**Date of expiration:** 6 September 2020



**Hazard Information:** Refer to the Safety Data Sheet (SDS), which can be obtained at [www.agilent.com/chem/sds](http://www.agilent.com/chem/sds).

**Homogeneity:** This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with QSP 6-13 Assessment of Homogeneity and Stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

**Further Information:** Please contact Agilent for further information about this CRM.

**Quality Certifications:** This CRM was prepared under a quality management system that is:

- Registered to ISO 9001 – Quality Management Systems – Requirements (TUV NORD Cert. Reg. No. 44 100 16560231)
- Accredited to ISO 17034– General Requirements for the Competence of Reference Material Producers (A2LA Cert. No. 2848.02)
  - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35.
- Accredited to ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories (A2LA Cert. No. 2848.01)