

REFERENCE MATERIAL CERTIFICATE

Reference Material

This certificate is designed in accordance with ISO Guide 31. This reference material (RM) was designed, produced and verified in accordance with a registered quality management system ISO 9001. All measurements were performed according to ISO/IEC 17025 by an A2LA accredited laboratory (3031.01)

Product Name

Zeaxanthin 10 µg/mL in Acetonitrile

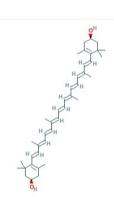
Product Code Lot Number DRE-A17947500AL-10 2-G537379AL

CAS No. Format
144-68-3 Solution

Mol. Weight Expiry
568.8714 25 May 2028

Mol. Formula Storage

C40H56O2 -18°C +/- 4°C



CERTIFIED

Concentration 10 ug/mL

CERTIFIED

Uncertainty .34 ug/mL

Uncertainty

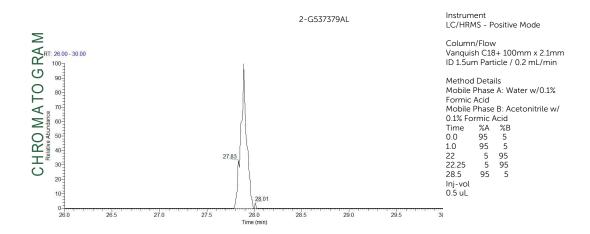
The certified value(s) and uncertainty(ies) are determined in accordance with EURACHEM/CITAC Guide for "Quantifying Uncertainty in Analytical Measurements, 3rd edition", with an 95% confidence level (k=2). Uncertainty is based on the Characterization Uncertainty, which includes uncertainties of preparation and purity of neat materials

The producer certifies that this reference material meets the specification stated in this certificate until the expiry date, provided it is stored unopened at the recommended temperature herein. Product warranties for this reference material are set out in the terms and conditions of purchase.

| CERTIFIED BY | CERTIFIED ON | Szeden Mit | RM Release |
|---------------|--------------|------------|------------|
| Susan Mathews | 29 May 2025 | | |

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Method of Preparation

The certified value is based on gravimetric and volumetric preparation of this RM. This RM has been confirmed by the appropriate analytical techniques.

Batch Information

Solvent: Acetonitrile, Lot no. 242593-ACCN, 50 mL

Gravimetric Data

| Compound Name | Lot No. | Weight (mg) | Chemical Purity |
|---------------|--------------|----------------|--------------------|
| zeaxanthin | 10827.421.2P | 0.56 | 88.9 |

Intended Use

This RM is intended for use in a laboratory as a calibration and quality control standard or in method development for analytical techniques.

Safety

Proper precautions should be observed while handling. See Safety Data Sheet.

Traceability

The balances used for gravimetric measurements are calibrated with weights traceable to the national standards (NIST). The calibration of

the balances is verified daily internally and annually by an external accredited calibration service. Chromatographic methods are traceable to the International System of Units (SI).

Storage

The RM should be stored in the original sealed container at the indicated temperature.

Instructions for use

The RM should be used shortly after opening to avoid concentration changes due to evaporation. It is recommended to use 1 μL as the minimum sample size. If storage after opening is necessary, it should be transferred to an amber vial with minimum head space and a Teflonlined silicon septum. After opening, please consult your own quality management system for proper use and storage. Visit the support section of our website lgcstandards.com for a series of Dr. Ehrenstorfer Tech Tip videos and frequently asked questions.

LGC Group

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