

Analytical Standards and CRMs for Food and Beverage Analysis



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 **Cerilliant®**
Analytical Reference Standards



SIGMA-ALDRICH®

Serving all your needs for Food and Beverage Analysis

Sigma-Aldrich brings decades of experience in the production and supply of analytical standards and reference materials for food and beverage analysis.

By staying in close contact with regulatory bodies and our customers, we maintain a range of standards for new and updated analytical methodologies. This flyer gives an overview of our current product offering.

We add continuously new products to the portfolio, in order to keep up-to-date with new developments in food and beverage analysis. Please visit our website at sigma-aldrich.com/standardsfood for more information.



Standards and Reference Material Categories

Analytical Standards are sufficiently pure, stable and homogeneous to be used for the calibration of an apparatus or assessment of analytical method performance. We provide a certificate of analysis for all analytical standards. Our Analytical Standards generally conform to or exceed the ISO Definition of a Reference Material.

Certified Reference Materials (CRMs) meet the requirements of ISO Guides 30 – 35 and are accompanied by a certificate stating the traceable value and its uncertainty. As part of the ISO Guide 34 requirements, homogeneity and stability of the materials are extensively tested and contribute to the uncertainties.

Our in-house produced TraceCERT® CRMs use high performance quantitative NMR (HP-qNMR®) under ISO/IEC 17025 to establish direct traceability to NIST SRM. On our webpage at sigma-aldrich.com/organiccrm you can find more information and the complete product portfolio.

Matrix Materials from IRMM

The Institute for Reference Materials and Measurements (IRMM) provides a large number of CRMs for food and agriculture. These products are either pure materials (or synthetic mixtures) or matrix materials. All products are delivered with a certificate, which carries a certified value with its uncertainty traceable either to a SI unit or an internationally accepted reference.

Custom Standards

If the standard you need is not available from our stock products, or if you need special packaging or testing, we can prepare custom standards according to your specific requirements.

To request a quote for an **organic custom standard**, please contact us at customstandards@sial.com or complete an online custom standards quote request at sigma-aldrich.com/standards for an **inorganic custom standard** for ICP or IC, please use our convenient online custom standards platform at sigma-aldrich.com/csp

How to Find the Right Standard?

Online Standards Catalogue

Browse our entire line starting from our standards starting page sigma-aldrich.com/standards (click: Analytical Standards Product Catalogue).

Standards Explorer.

This search engine sigma-aldrich.com/standards_explorer provides a fast and efficient access to our extensive product line using keyword searching with name, CAS number, molecular formula or official methods.

Food and Beverage Standards

Our portfolio of analytical standards and certified reference materials (CRMs) for food and beverage analysis comprise the following product groups:

Neats and Solutions

Amino Acids, Peptides and Proteins	Ion Standard Solutions
Antibiotics	Lipids, Oils, Sterols
Antioxidants	Natural compounds
Aroclors / PCBs / Dioxins	NODGE/BADGE
Biotoxins / Mycotoxins	Nutraceuticals
Carbohydrates	Organic Acids
Carotenoids	Organic Neat CRMs
DNA Standards (Food Authenticity Testing)	Pesticides and Metabolites
FA/FAMES	Phytopharma
Flavors and Fragrances	Preservatives
Food Color Additives	Sweeteners
Food Residuals	Veterinary Drugs and Metabolites
Hormones	Vitamins
Inorganic Standards for AAS and ICP	Water Standards for Karl Fischer Titration

TraceCERT CRMs

Amino Acids
Antibiotics
FA/FAME
Mycotoxins
Organic Acids
Pesticides
Polyaromatic Hydrocarbons (PAHs)

Matrix Materials

GMO Reference Materials (Genetically modified Organisms)
Food and Agriculture CRMs

Biological Reference Materials

Microorganisms (CFU)

Physical Properties

Color Reference Solutions	Particle Size
Density	pH Calibration / Buffers Redox
Melting Point	Viscosity

Find our products at sigma-aldrich.com/standardsfood

Expert Technical Service is only a phone, FAX or email away. If you need help choosing the right standard or reference material, our technical service representatives will be happy to help you with:

- Product selection
- Obtaining certificates of analysis online
- Using a standard or reference material
- Troubleshooting product performance

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