

Analytical Standards and CRMs for Food and Beverage Analysis

Fluka
Analytical



SUPELCO
Solutions within.™

 **Cerilliant**
Analytical Reference Standards

 **RTC**

LABCO L.L.C.

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. Fluka 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

EurTechServ@sial.com
techservice@sial.com (US and Canada)

Sigma-Aldrich Worldwide Offices

Argentina

Free Tel: 0810 888 7446
Tel: (+54) 11 4556 1472
Fax: (+54) 11 4552 1698

Australia

Free Tel: 1800 800 097
Free Fax: 1800 800 096
Tel: (+61) 2 9841 0555
Fax: (+61) 2 9841 0500

Austria

Tel: (+43) 1 605 81 10
Fax: (+43) 1 605 81 20

Belgium

Free Tel: 0800 14747
Free Fax: 0800 14745
Tel: (+32) 3 899 13 01
Fax: (+32) 3 899 13 11

Brazil

Free Tel: 0800 701 7425
Tel: (+55) 11 3732 3100
Fax: (+55) 11 5522 9895

Canada

Free Tel: 1800 565 1400
Free Fax: 1800 265 3858
Tel: (+1) 905 829 9500
Fax: (+1) 905 829 9292

Chile

Tel: (+56) 2 495 7395
Fax: (+56) 2 495 7396

China

Free Tel: 800 819 3336
Tel: (+86) 21 6141 5566
Fax: (+86) 21 6141 5567

Czech Republic

Tel: (+420) 246 003 200
Fax: (+420) 246 003 291

Denmark

Tel: (+45) 43 56 59 00
Fax: (+45) 43 56 59 05

Finland

Tel: (+358) 9 350 9250
Fax: (+358) 9 350 9255

France

Free Tel: 0800 211 408
Free Fax: 0800 031 052
Tel: (+33) 474 82 28 88
Fax: (+33) 474 95 68 08

Germany

Free Tel: 0800 51 55 000
Free Fax: 0800 64 90 000
Tel: (+49) 89 6513 0
Fax: (+49) 89 6513 1160

Hungary

Ingyenes telefonszám: 06 80 355 355
Ingyenes fax szám: 06 80 344 344
Tel: (+36) 1 235 9063
Fax: (+36) 1 269 6470

India

Telephone

Bangalore: (+91) 80 6621 9400
New Delhi: (+91) 11 4358 8000
Mumbai: (+91) 22 2570 2364
Hyderabad: (+91) 40 4015 5488
Kolkata: (+91) 33 4013 8003

Fax

Bangalore: (+91) 80 6621 9650
New Delhi: (+91) 11 4358 8001
Mumbai: (+91) 22 4087 2364
Hyderabad: (+91) 40 4015 5488
Kolkata: (+91) 33 4013 8000

Ireland

Free Tel: 1800 200 888
Free Fax: 1800 600 222
Tel: (+353) 402 20370
Fax: (+353) 402 20375

Israel

Free Tel: 1 800 70 2222
Tel: (+972) 8 948 4100
Fax: (+972) 8 948 4200

Italy

Tel: (+39) 02 3341 7310
Fax: (+39) 02 3801 0737

Japan

Tel: (+81) 3 5796 7300
Fax: (+81) 3 5796 7315

Korea

Free Tel: (+82) 80 023 7111
Free Fax: (+82) 80 023 8111
Tel: (+82) 31 329 9000
Fax: (+82) 31 329 9090

Malaysia

Tel: (+60) 3 5635 3321
Fax: (+60) 3 5635 4116

Mexico

Free Tel: 01 800 007 5300
Free Fax: 01 800 712 9920
Tel: (+52) 722 276 1600
Fax: (+52) 722 276 1601

The Netherlands

Free Tel: 0800 022 9088
Free Fax: 0800 022 9089
Tel: (+31) 78 620 5411
Fax: (+31) 78 620 5421

New Zealand

Free Tel: 0800 936 666
Free Fax: 0800 937 777
Tel: (+61) 2 9841 0555
Fax: (+61) 2 9841 0500

Norway

Tel: (+47) 23 17 60 00
Fax: (+47) 23 17 60 10

Poland

Tel: (+48) 61 829 01 00
Fax: (+48) 61 829 01 20

Portugal

Free Tel: 800 202 180
Free Fax: 800 202 178
Tel: (+351) 21 924 2555
Fax: (+351) 21 924 2610

Russia

Tel: (+7) 495 621 5828
Fax: (+7) 495 621 5923

Singapore

Tel: (+65) 6779 1200
Fax: (+65) 6779 1822

Slovakia

Tel: (+421) 255 571 562
Fax: (+421) 255 571 564

South Africa

Free Tel: 0800 1100 75
Free Fax: 0800 1100 79
Tel: (+27) 11 979 1188
Fax: (+27) 11 979 1119

Spain

Free Tel: 900 101 376
Free Fax: 900 102 028
Tel: (+34) 91 661 99 77
Fax: (+34) 91 661 96 42

Sweden

Tel: (+46) 8 742 4200
Fax: (+46) 8 742 4243

Switzerland

Free Tel: 0800 80 00 80
Free Fax: 0800 80 00 81
Tel: (+41) 81 755 2828
Fax: (+41) 81 755 2815

United Kingdom

Free Tel: 0800 717 181
Free Fax: 0800 378 785
Tel: (+44) 1747 833 000
Fax: (+44) 1747 833 313

United States

Toll-Free: 800 325 3010
Toll-Free Fax: 800 325 5052
Tel: (+1) 314 771 5765
Fax: (+1) 314 771 5757

Vietnam

Tel: (+84) 3516 2810
Fax: (+84) 6258 4238

Internet

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Order/Customer Service (800) 325-3010 • Fax (800) 325-5052
Technical Service (800) 325-5832 • sigma-aldrich.com/techservice
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Safety-related Information sigma-aldrich.com/safetycenter

World Headquarters
3050 Spruce St.
St. Louis, MO 63103
(314) 771-5765
sigma-aldrich.com

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