

Sigma-Aldrich® Product Portfolio

Brands and Grades for Every Application

SIGMA-ALDRICH®

PRODUCT BRANDS



APPLICATIONS

Analytical

Capillary Electrophoresis
Chromatography
Electrochemistry
Microbiology
Spectroscopy
Titration / HYDRANAL®
Wet Analysis

Life Science

Biochromatography
Biotransformation
Cell Culture
Cloning & Expression
Electrophoresis
Enzymatic Analysis
Fluorescence Spectroscopy
Light & Electron Microscopy
Mass Spectrometry
Nucleic Acid Purification
Protein Purification & Detection

Chemistry

Asymmetric Synthesis
Catalysis
Inorganic Chemistry
Medicinal Chemistry
Organic Synthesis
Organometallic Chemistry


















Materials Science

Alternative Energy
Biomaterials
Metal & Ceramic Science
Micro/NanoElectronics
Nanomaterials
Organic Electronics
Polymer Science

Development and Manufacturing

Biosciences
Diagnostics
High Technology
Flavors & Fragrances
Pharma
Raw Materials for Manufacturing

Fast and easy access to the correct product quality

Application	Brand	Grade or Trade Name	Definition
Analytical	 Fluka Analytical	TraceSELECT® Ultra	Highest analytical grade for ultra-trace analysis. Designed for the ultra-trace analysis at ppb and even ppt levels. Typical metal trace impurities are below 0.1 µg/kg (<0.1 ppb), in some cases even as low as the ppq level.
Analytical	 Fluka Analytical	TraceSELECT®	High purity reagents for inorganic trace analysis applications and organic residue analysis. Developed for sample preparation and analysis in the ppm and ppb level. The blank values for metal traces are typically below 0.01 mg/kg (0.01 ppm).
Analytical	 Fluka Analytical	TraceCERT®	Certified reference material according to ISO 17025 and ISO Guide 34. TraceCERT reference materials are developed and produced in an accredited laboratory fulfilling both ISO 17025 (general requirements for the competence of testing and calibration laboratories) and ISO Guide 34 (general requirements for the competence of reference material producers).
Life Science	 SIGMA Life Science	BioUltra	Finest quality products for life science, with the most stringent testing protocols and highest purity. Superior manufacturing methods and product specific testing protocols are designed to ensure quality to our highest standard. Tests may include, but are not limited to, purity by gel electrophoresis, trace metal testing and application testing.
Life Science	 SIGMA Life Science	BioXtra	Stringent testing protocols may include trace metal analysis and specialized suitability testing, such as hybridoma or mouse embryo. Includes application-specific formulations, such as tablets and prepared solutions.
Life Science	 SIGMA Life Science	BioReagent	Base grade products, suitability tested for specific applications such as molecular biology or cell culture.
Life Science	 SIGMA Life Science	% purity	Sigma brand products used for basic life science applications.
Chemistry	 ALDRICH Chemistry	Anhydrous	High-purity solvents with extremely low water content specifically manufactured for moisture sensitive syntheses.
Chemistry	 ALDRICH Chemistry	% purity	High quality chemistry products defined by their assay value as a percent purity.
All	 SIGMA-ALDRICH  Fluka Analytical	CHROMASOLV®	Solvents tested for suitability in HPLC applications. Highest quality solvents used in LC-MS and LC-NMR are branded Fluka.
All	 SIGMA-ALDRICH	puriss p.a., ACS reagent	Exceeds standard ACS specifications with additional trace metals analysis.
All	 SIGMA-ALDRICH	ACS reagent	Meets or exceeds ACS specifications. For general analysis and procedures requiring stringent quality specifications.
All	 SIGMA-ALDRICH	Corresponds to official monograph (e.g. Ph.Eur, USP)	Produced/procured, packaged and analyzed under appropriate quality systems for pharmaceutical applications acc. to the corresponding monograph
All	 SIGMA-ALDRICH	Meets analytical specifications of USP, FCC, NF, EP (Ph. Eur.), BP, and/or JP.	Chemicals that meet the latest testing specifications of the United States Pharmacopeia (USP), Food Chemicals Codex (FCC), National Formulary (NF), Pharmacopeia Europe (EP or Ph. Eur.), British Pharmacopeia (BP), and/or Japanese Pharmacopeia (JP). For R&D and testing purposes only.
All	 SIGMA-ALDRICH	ReagentPlus® or Laboratory reagent	≥95% for general laboratory use.
All	 SIGMA-ALDRICH	Technical	Chemicals that do not have an established standard set for quality and impurity levels or for products where the purity is <90%. Variation in color and shape is possible.

In addition, Sigma-Aldrich offers many grades for specific applications that can be found at sigma-aldrich.com

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