







Sigma-Aldrich® Product Portfolio










Sigma-Aldrich® gives you easy access to the product you need


- by streamlining our product range
- by delivering clearly defined product categories
- by providing brands and grades for every application

Sigma-Aldrich Brands

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

Sigma-Aldrich Grades

Application	Brand	Grade or Trade Name	Definition
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		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		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		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		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		BioReagent	Base grade products, suitability tested for specific applications such as molecular biology or cell culture.
Life Science		% purity	Sigma brand products used for basic life science applications.
Chemistry		Anhydrous	High-purity solvents with extremely low water content specifically manufactured for moisture sensitive syntheses.
Chemistry		% purity	High quality chemistry products defined by their assay value as a percent purity.

All	SIGMA-ALDRICH 	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 according 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	<i>ReagentPlus</i> ® 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 physical form is possible.