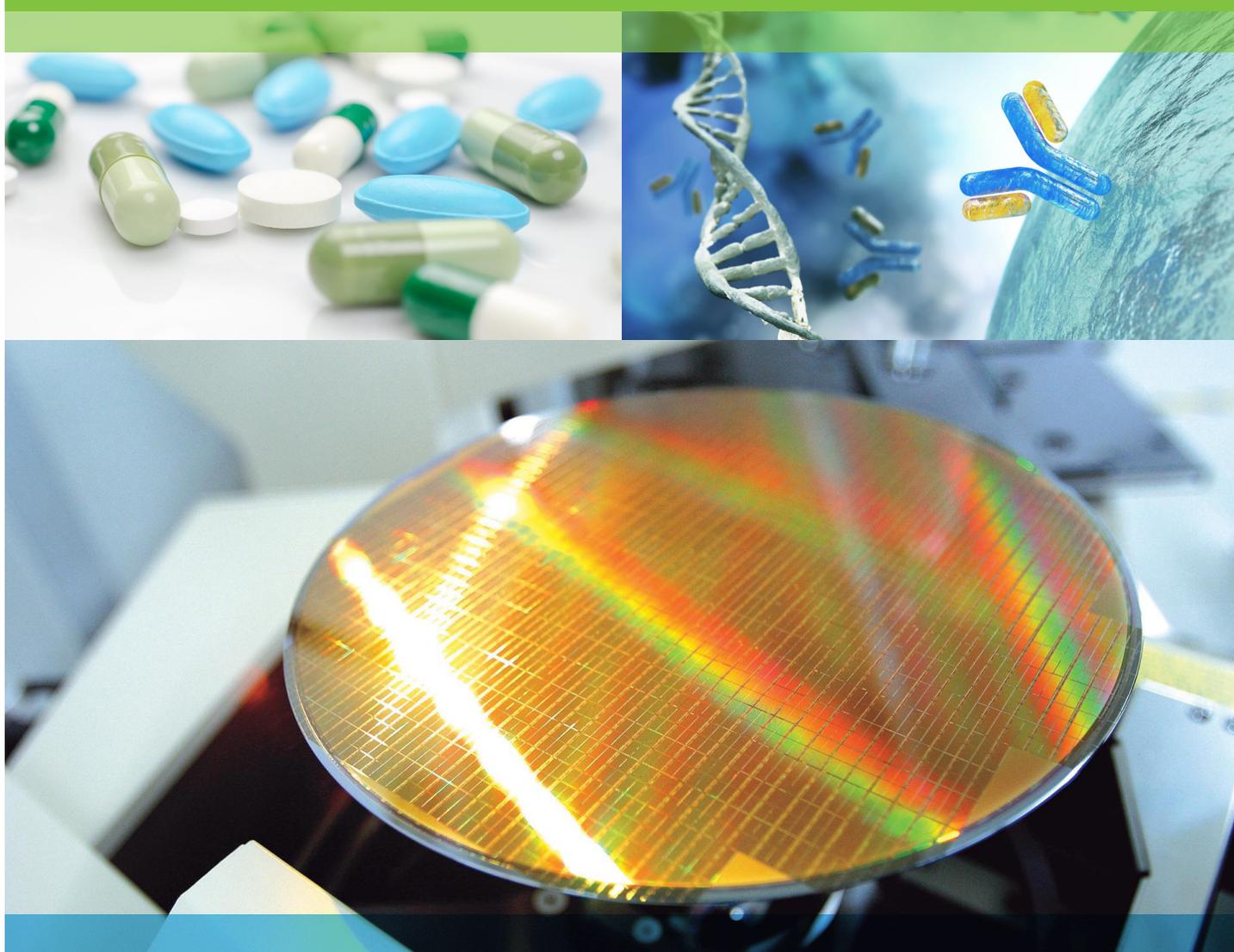


CrossLab Method Services Applications Catalog



Welcome to the Agilent Catalog of Frequently Requested Applications

In this catalog, you will find a curated selection of frequently requested applications. Our dedicated application team, equipped with deep laboratory experience, is available to help you set up a new method or evaluate and optimize an existing method. Designed as a valuable guide, this catalog presents a range of frequently requested applications asked for by our customers.

If you do not find the specific applications you are seeking in this document, please do not hesitate to [chat with us](#).

Expert insights based on your lab's requirements

Method maintenance

When your lab is running a method day in and day out, you don't want surprises. We can help keep your methods running smoothly with services like these:



- New-hire application training
- Application troubleshooting
- Data analysis, automation, and reporting
- Tuning and calibration

Method implementation

Produce reliable results from the start. Let us help you quickly and accurately implement methods, with services such as:



- Chromatographic choice
- Acquisition selection
- Database/library creation and macro development
- Compound identification/molecular structure elucidation
- Sample preparation assistance

Method optimization

Success depends on the timeliness and accuracy of your data. We'll work with you to find hidden method improvements that can take your results to the next level. Our services include:



- Sensitivity optimization
- Differential profiling/expression
- Method transfer
- Workflow optimization

Method development

Frustrated by tedious method development? Give us a call. We'll help simplify the process with these services and more:



- Methods for advanced, complex applications
- Long-term projects and in-depth collaborations
- Remove consulting by telephone or Webex

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Food



Application	Instrument	App. Note
Method Setup for Water-soluble Vitamins	LC/DAD	5989-9313EN 5991-8780EN 5988-6365EN
Method Setup for Fat-soluble Vitamins	LC/DAD	5990-4882EN 5991-5749EN 5994-2948EN
Amino Acid Analysis	LC/DAD	5994-0033EN 5991-6572EN 5991-7694EN
Vitamin B1 and B2 Analysis in Food	LC/DAD	5990-7950EN 5989-9313EN
Method Setup for Sweeteners (Stevia)	LC/DAD/ELSD	5991-6580EN
Method Setup for Suspect/Target Screening Workflow of Amino Acids	LC/Q-TOF	5991-8816EN
Method Setup for the Analysis of Microcystin	LC/TQ	5991-9087EN
Screening and Analysis of Veterinary Drugs in Meat; Milk and Egg; Seafood	LC/TQ UHPLC-QTOF	5994-1932EN 5994-3124EN 5994-2832EN 5991-6651EN
Acrylamide Analysis of Food	LC/MSD LC/TQ	5994-0820EN 5990-5940EN
Alternative Protein, Meat, and Dairy Products Analysis	LC/FLD LC/Q-TOF	5994-5950EN 5994-5130EN
Discovery Metabolomics and Flux Analysis	LC/Q-TOF	5991-6449EN 5994-0724EN 5994-0713EN
Method Setup for Speciation (As, Mg, Cr) and Heavy Metals Analysis	LC/ICP-MS	5994-3713EN
Analysis of Multiclass Multiresidue Pesticides in Milk and Food	LC/TQ UHPLC/Q-TOF	5994-2038EN 5994-2370EN 5994-3123EN



Food



Application	Instrument	App. Note
Fatty Acid Methyl Ester Analysis	GC/FID	5991-9482EN
Determination of Fatty Acid Methyl Esters in Food and Oil	GC/MSD GC/FID	5991-0761EN 5994-3233EN 5990-9799EN
Determination of MCPD and GE in Edible Oil	GC/MSD	5994-3233EN
Determination of Pesticides in Food	GC/MSD GC/TQ	5991-5974EN 5994-0799EN 5991-7303EN 5991-7216EN 5994-1717EN
Polycyclic Aromatic Hydrocarbon (PAH) Analysis in Food	GC/TQ	5994-0553EN
Phthalate Analysis in Packaging Materials	GC/MSD	5994-0483EN
Heavy Metal Analysis in Food	ICP-OES ICP-MS	5991-9287EN 5991-0107EN
Arsenic Speciation Analysis in Food	LC-ICP/MS	5991-0622EN
Determination of Critical Elements in Foods, in Accordance with U.S. FDA (EAM) 4.7 ICP-MS Method	ICP-MS	5994-2839EN



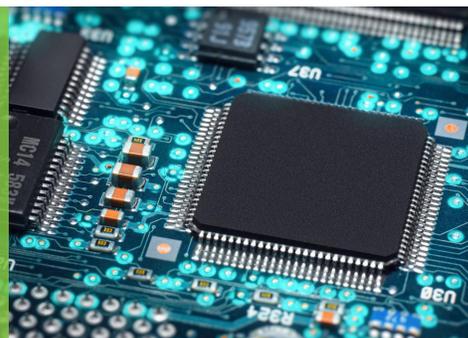
Environmental



Application	Instrument	App. Note
FAME Analysis in Oil Samples	GC/FID	5994-0549EN
Environmental Water—Method Setup Haloacetic Acids for U.S. EPA 552.3 with Dual uECD	GC/uECD	5990-8765EN
Polychlorinated Biphenyls (PCBs) Analysis in Water	GC/ECD	5994-1814EN
Organochlorine (OC) Pesticides Analysis in Water	GC/ECD	5994-3098EN 5991-9000EN
Polycyclic Aromatic Hydrocarbons (PAHs) Analysis in Water	GC/MSD	5994-0499EN 5994-0877EN
Environmental Water – Total Petroleum Hydrocarbon (TPH) Method Setup for U.S. EPA 8260	GC/FID GC/MSD	5990-9104EN 5991-7367EN
Environmental Water – Volatile Organic Compounds (VOCs) Method Setup	GC/MSD, purge and trap/ headspace	5991-9257EN 5994-0662EN 5991-0029EN
Environmental Water – Semivolatile Organic Compounds (SVOCs) Method Setup for U.S. EPA 8270	GC/MSD	5991-1505EN
Water Samples – Determination of Trihalomethanes (THMs) According to EPA 8260	GC/MSD	5991-6539EN
Determination of Toxic Organic Compounds in Ambient Air Based, on EPA TO17	GC/MSD, thermal desorption	5991-2828EN
Water Samples – Determination of PBB and PBDE Following IEC 62321, Method Setup, and Liquid-Liquid Extraction (LLE)	GC/MSD GC/TQ	5994-0195EN
Environmental Water – Determination of Phthalates Following IEC 62321, Method Setup, and Liquid-Liquid Extraction (LLE)	GC/MSD GC/TQ	5994-0656EN
Environmental Water – Dioxin Analysis	GC/TQ	5994-0677EN
Nitrosamines Analysis in Water	GC/TQ	5994-2184EN
Analysis of PFAS in Drinking Water by EPA Method 533/EPA 537.1	LC/TQ Ultivo LC/TQ	5994-1628EN 5994-1920EN
ICP-MS Analysis of Trace and Major Elements in Drinking Water, According to U.S. EPA Method 200.8	ICP-MS	5994-4744EN
Determination of Heavy Metals in River Water as per EPA 200.8	ICP-MS	5994-0193EN
Ultrafast ICP-OES Determination of Trace Elements in Water, as per U.S. EPA 200.7	ICP-OES	5991-4821EN
Water Analysis According to Method APHA 3120B	ICP-MS	APHA 3120B
Determination of Heavy Metals in Waste Samples: Soils, Sediment, and Sludges as per U.S. EPA 6010D	ICP-OES	5994-2027EN 5994-2307EN
Precious Metal Group Analysis in Geological Samples	MP-AES	5991-7103EN
Analysis of Oil in Water	Cary 630 FTIR	5991-5590EN



Material



Application	Instrument	App. Note
Synthetic Rubber – Acrylonitrile Monomer in Latex	GC/FID, headspace	ASTM D5508-16
Acetaldehyde in PET Plastic Pellets	GC/FID, headspace	5991-4355EN
Solvent Residue on Packaging Material Analysis by ASTM F1884-04	GC/FID, headspace	ASTM F1884-04
Solvent Residues Analysis	GC/FID	USP <467>
Transformer Oil – Measurement Uncertainty Calculation for TOGA Gas Method, Following IEC/ISO 17025	GC/TCD, headspace	IEC/ISO 17025
Phthalate Analysis	GC/MSD	5994-0483EN
Polymer – GPC Calibration Setup for PMMA	1260 GPC	5990-7995EN
Polymer – GPC Calibration Setup for PEG/PEO	1260 GPC	5990-7996EN
Analysis of Accelerators, Antidegradants, and Surfactants	HPLC	5989-6011EN ASTM D6844-02 ASTM D5297-1995(2009) ASTM D5666 - 95
Minerals Analysis	ICP-OES ICP-MS	5994-4492EN 5991-6406EN
Inorganic Impurities in Semiconductors	ICP-MS	5994-1907EN 5991-9495EN
Ultra-race Analysis of Metals in Minerals	ICP-MS	5991-6406EN
Elemental Analysis for Ultrapure Water, H ₂ SO ₄ , HCl, and HNO ₃	ICP-MS	5991-9495EN
Heavy Metal Analysis in HNO ₃ /HCl/HF/H ₂ O ₂ /H ₂ SO ₄	ICP-MS ICP-QQ	5991-9495EN 5990-7354EN
Organic Solvent Analysis (IPA, NMP, PGME, PGMEA)	ICP-MS ICP-QQ	5991-9495EN 5990-9366EN 5994-0273EN



Energy and Chemicals



Application	Instrument	App. Note
Aromatic Hydrocarbon Analysis	LC	5991-3171EN 5994-0743EN
Allergenic Disperse Dyes Analysis	LC	5991-5169EN
Trihalomethane Analysis	GC	EPA 501
Biofuel Analysis	GC	SP1 Geen House Analyzer
CO2 Reduction and Identification	990 Micro GC	5994-4524EN 5994-2320EN
Biodiesel, Mono, Di, Triglyceride Analysis by EN14105	GC/FID	5990-9893EN
FAME Analysis in Biodiesel by EN14103	GC/FID	5990-8983EN
Chemical and Petrochemical Testing Solutions	GC/FID	ASTM D7423-17
Determination of Methanol Content in FAME for Use as Biodiesel B EN 14110	GC/FID headspace	5990-8985EN
Detection of Sulfur Compounds in Light Petroleum Liquids, According to ASTM D5623	GC/SCD	5991-6577EN 5991-7215EN
Analysis of Sulfur Compounds in Petroleum Gases and Natural Gas, According to ASTM D5504	GC/SCD	5991-4643EN
H ₂ Impurities Analysis	990 Micro GC	5994-2138EN
Determination of Chemical Species in Marine Fuel Oil, According to ASTM D7845	GC/MSD GC/TQ	ASTM D7845
Multi-Elemental Analysis of Crude Oil, as per ASTM D5708-15	ICP-OES	5994-1583EN
Measurement of Wear Metals and Additives in Lubricant Oils, as per ASTM D5185-18	ICP-OES	5994-1671EN
Multi-Elemental Analysis of Crude Oil, as per ASTM D5708-15	ICP-OES	ASTM D5708-15
Measurement of Wear Metals and Additives in Lubricant Oils, as per ASTM D5185-18	ICP-OES	ASTM D5185-18
Multi-Element Analysis of Petroleum Crude Oils Using an Agilent ICP-MS	ICP-MS	5991-7826EN
Determination of Phenolic Antioxidant DBPC and DBP Levels in Electrical Insulating Oil, ASTM D2668	FTIR	ASTM D2668



Pharma



Application	Instrument	App. Note
Residual Solvent Analysis	GC/FID	USP
Analysis of Cannabidiol Potency	GC/MS	AOAC
Determination of Nitrosamine Impurities (Synonyms: genotoxic NDMA, mutagenic impurity)	GC/TQ	5994-4618EN 5994-2419EN
Pharmaceutical Small Molecules (Elemental impurities analysis)	ICP-MS	USP



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