





Analytical & Research Services

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"Welcome to Aral Research, your trusted partner in chemical analysis and research. Our comprehensive suite of services caters to the diverse needs of the chemical industry, ensuring precision, reliability, and compliance at every stage of development.

Our Services

- MASS Analysis
- HPLC Analysis
- LCMS Analysis
- GCMS Analysis
- NMR Analysis
- IR Analysis
- Chiral HPLC Analysis
- Lyophilization
- Isolation & Purification
- Full Characterization Report
- Structure Elucidation
- R&D services

HPLC (High Performance Liquid Chromatography): Our advanced HPLC techniques deliver accurate separation and quantification of compounds, essential for chemical analysis and quality control.

GC (Gas Chromatography) and GC-MS (Gas Chromatography Mass Spectrometry): Our GC and GC-MS capabilities provide comprehensive analysis of volatile compounds, supporting forensic analysis, environmental monitoring, and more.

LCMS (Liquid Chromatography Mass Spectrometry): Harnessing the power of LCMS, we provide in-depth analysis and characterization of complex mixtures, supporting drug discovery and development.

Chiral HPLC: With specialized chiral HPLC techniques, we ensure the purity and efficacy of chiral isomers, crucial in chemical research and development.



Prep HPLC (Preparative High Performance Liquid Chromatography): Our Prep HPLC service offers efficient purification and isolation of compounds at scale, facilitating downstream processing and synthesis.

Mass Spectroscopy: Mass spectrometry analyzes the mass-to-charge ratio of ions to identify and quantify molecules in a sample. It's utilized across diverse fields including proteomics, metabolomics, environmental analysis, and drug discovery.

IR (Infrared Spectroscopy): IR spectroscopy identifies functional groups and molecular structures by analyzing the absorption of infrared light. It's essential for characterizing organic and inorganic compounds in various fields including pharmaceuticals, polymers, and materials science.

NMR (Nuclear Magnetic Resonance): NMR spectroscopy provides detailed information about the molecular structure, dynamics, and interactions of compounds based on their unique magnetic properties. It's indispensable in structural elucidation, metabolomics, and drug design.

Full Characterization Report: Our comprehensive characterization reports provide in-depth analysis of drugs, impurities, or active pharmaceutical ingredients (APIs). From molecular structure to physical properties, our reports offer a thorough understanding of your samples, enabling informed decision-making and regulatory compliance.



Expertise

Method Development: We employ advanced chromatographic methods and optimization techniques to develop customized purification protocols tailored to your specific requirements. Our expert team of scientists leverage their extensive experience and knowledge to achieve optimal separation and purification of target compounds.

Targeted Purification: Our prep HPLC systems are capable of handling a wide range of sample crude, allowing us to isolate and recover high-purity compounds in a cost effective manner with precision and efficiency.

Lyophilization: Our lyophilization (freeze-drying) services preserve the integrity of delicate samples and prepare stable formulations for long-term storage. With meticulous attention to detail, we ensure that your samples retain their properties and efficacy throughout the lyophilization process.

Large Scale purification Capabilities: Our prep HPLC systems are equipped with columns specifically designed for large-scale purification(DAC column), from milligrams to grams, making them suitable for both small-scale research projects and large-scale production applications. Whether you require analytical purification or preparative scale-up, we have the capabilities to meet your needs.

Full Characterization Report: Our comprehensive characterization reports provide in-depth analysis of drugs, impurities, or active pharmaceutical ingredients (APIs). From molecular structure to physical properties, our reports offer a thorough understanding of your samples, enabling informed decision-making and regulatory compliance.

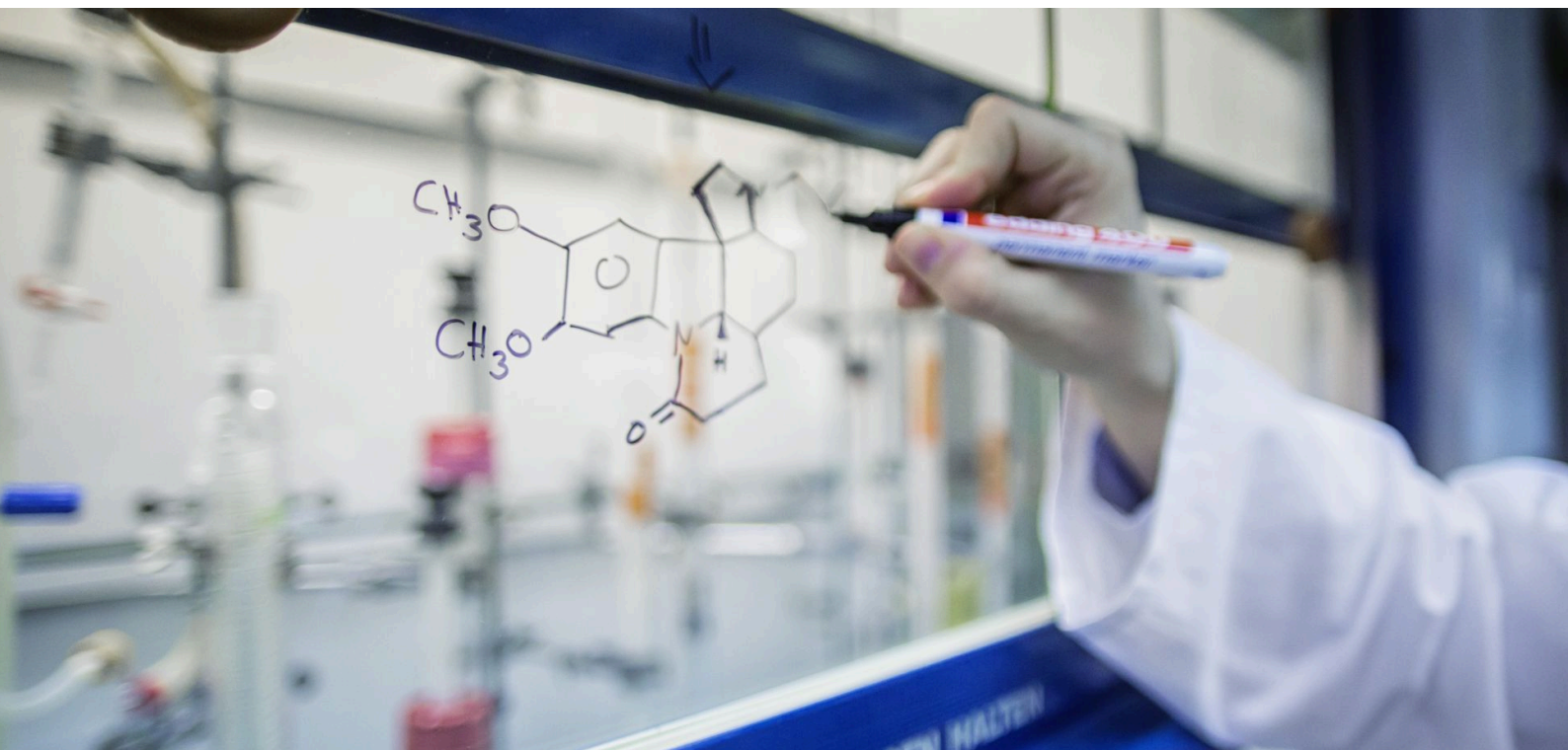


Synthesis Capabilities

"Our team brings over a decade of collective experience in synthesizing compounds, including heterocyclic structures, medicinal chemistry compounds, and small molecule New Chemical Entities (NCEs). We handle synthesis from milligram to gram scales and excel in library synthesis. Skilled in analytical interpretation, we ensure accurate characterization. We also specialize in synthesizing pharmaceutical reference standards and Active Pharmaceutical Ingredient (API) impurities, adhering to stringent quality standards.

In our R&D synthesis lab, we blend innovative methodologies with meticulous attention to detail to produce compounds of exceptional quality and purity.

Leveraging our deep understanding of synthetic chemistry, we optimize processes for diverse applications from drug discovery to custom synthesis and Impurity synthesis. Our robust analytical infrastructure ensures comprehensive characterization and quality assurance, with chromatographic, spectroscopic, and spectrometric techniques. Collaborating closely with our synthesis team, our analytical experts develop tailored methods for precise quantification and dependable analysis. At Aral Research, we seamlessly integrate synthesis and analytical services, offering a comprehensive solution.



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<https://aralresearch.com>

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This detailed overview underscores our commitment to excellence in synthesis and analysis, supported by state-of-the-art instrumentation and a team of highly skilled scientists. We are dedicated to delivering superior quality compounds and analytical services to meet the diverse needs of our clients in the chemical research industry ensuring the confidentiality of your project affairs.

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