



Advanced Analytical CRO:

Where your needs
find solutions



1. **About AMSbiopharma**

We are an analytical CRO offering advanced services for the pharmaceutical, biopharmaceutical and chemical industries in the pre-clinical phase, as well as in drug quality control.

Since our origin in 2008 as the most representative company of the AMSlab Group, we stand out for our customer orientation and our ability to offer both standard and specific analytical solutions for problems that arise during new developments.



Effective and constant communication

We emphasize the importance of fluid and close communication for the success of projects.



Personalized service

We offer direct service, guaranteeing continuous access to its experts and to the required information.



Focus on a strategic relationship

Our company positions itself not only as a supplier, but also as a strategic partner that understands the client's needs.



Advanced analytical solutions

Advanced analytical solutions designed to integrate effectively into customer processes.



Accurate and reliable results

These solutions aim to provide accuracy and reliability to drive the customer's pharmaceutical projects.



AMSbiopharma plays a crucial role in supporting numerous companies, providing support in their problem-solving processes and routine activities.

As a part of this strong network, AMSlab is a group of biotech companies specializing in analytical solutions for a wide range of sectors, including veterinary, pharmaceutical, food and health care.

This diversification and specialization have enabled AMSlab to position itself as one of the market leaders, consolidating its reputation as a benchmark in quality and reliability services for different industries.



Our team

At AMSbiopharma, our team is the cornerstone of our success.

Comprising a diverse group of dedicated professionals, we bring together a wealth of experience and expertise in the fields of biopharmaceuticals, analytical solutions, and quality control.

Our scientists, researchers, and support staff are united by a common passion for innovation and a commitment to excellence.

How do we work



**Personalized attention
and direct access to experts**



**Customized solutions
for efficient processes**



**Commitment to quality
and reliability**



**Aligned with a fair
and responsible future**



Recognitions:





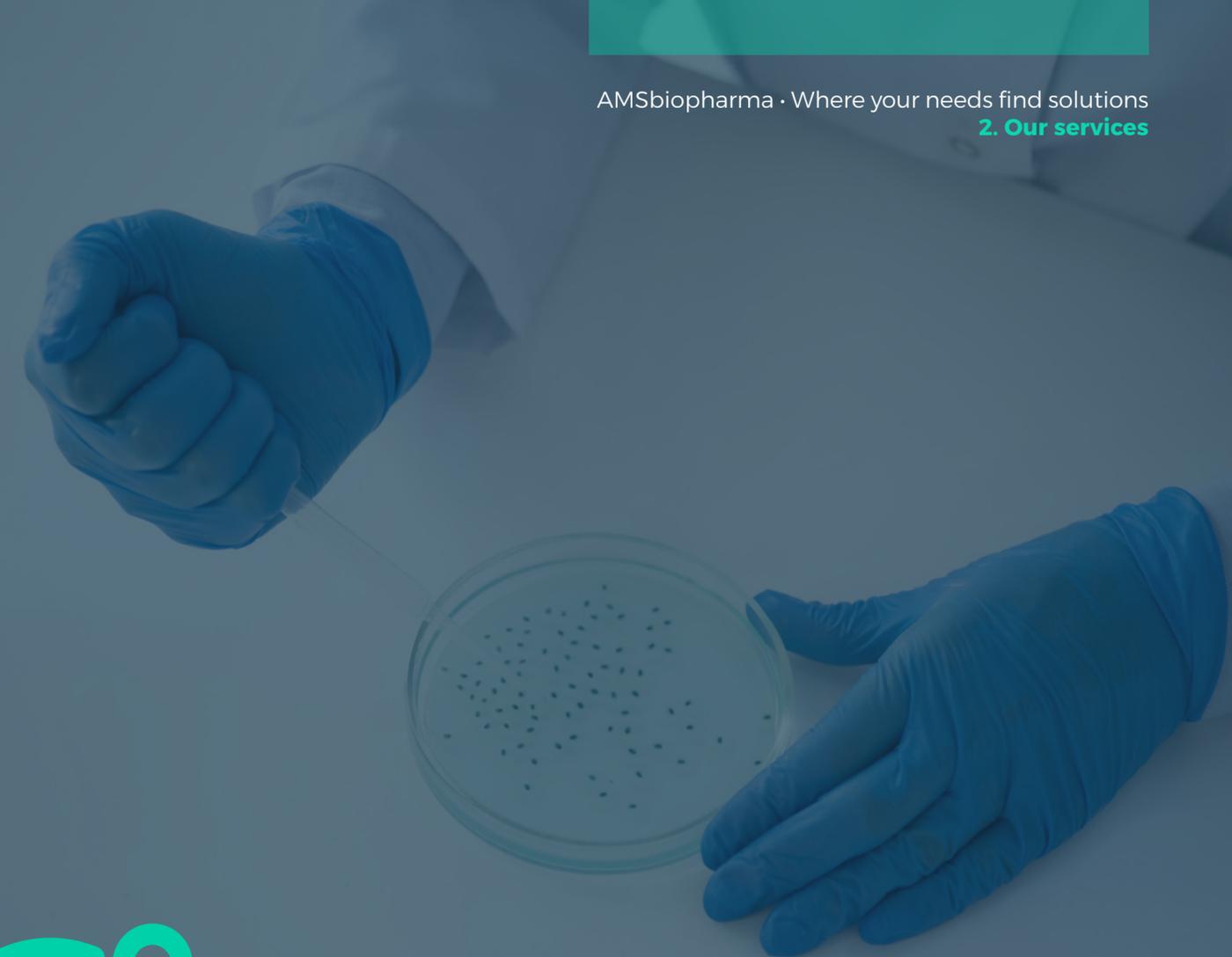
Projects

At AMSbiopharma, we participate in various research and development projects, our own or in collaboration with other private or public entities at regional, national or international level, always aimed at offering new analytical solutions that favour scientific progress and the continuous improvement of processes in different sectors.



2. **Our services**

We provide analytical services to support the pharmaceutical, biopharmaceutical, and chemical industries at every stage of drug development.



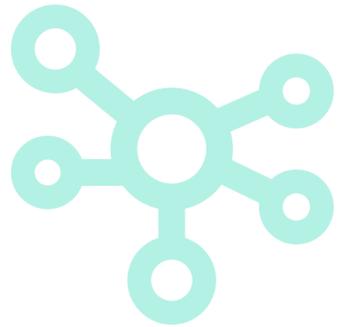
R&D and Preclinical

Advanced analytical support for drug research and preclinical development.



Quality control

Comprehensive services to ensure the highest standards of quality and safety.



R&D and Preclinical

At AMSbiopharma, we offer advanced bioanalytical and metabolomics services to support drug development.

**Bioanalysis
and
biomarkers**

**Metabolomics
and lipidomics**

R&D and Preclinical

Bioanalysis and biomarkers

We provide specialized UPLC-MS/MS bioanalytical services for precise analysis in pharmaceutical and biopharmaceutical development and quality control.

DMPK (Drug Metabolism and Pharmacokinetics)	UPLC- MS/MS
Analysis of aminoacids and aminoacid-related compounds	UPLC- MS/MS
Biomarkers: Analysis of biogenic amines	UPLC- MS/MS
Biomarkers: Analysis of ceramides and sphingosines	UPLC- MS/MS
Biomarkers: Analysis of cortisol	UPLC- MS/MS
Biomarkers: Analysis of sphingolipids	UPLC- MS/MS

Metabolomics and lipidomics

Our Metabolomics Services provide crucial data for research and development (R&D) and preclinical studies.

Untargeted metabolomics. Relative quantitation	UPLC- HRMS
Quantitative targeted metabolomics	UPLC- MS/MS



Quality control

At AMSbiopharma, we provide specialized quality control services to ensure the safety and efficacy of pharmaceutical products.

Drug
impurities

Analytical
support

Analysis of
protein-based
pharmaceuticals

Analysis
of nucleic acid-
based bio-
pharmaceuticals

ICP-MS
analysis

Quality
Control &
Stabilities

Microbiological
control

Medical
Cannabis

Quality control

Drug impurities

We specialize in detecting and analyzing impurities, including nitrosamines and NDSRIs, to ensure pharmaceutical products meet regulatory safety standards and maintain efficacy throughout development.

Identification of unknown drug impurities	UPLC-DAD-HRMS
Isolation of drug impurities	Prep-LC
Quantitation of drug impurities	UPLC-MS/MS and GC-MS/MS
Analysis of nitrosamines	UPLC-MS/MS and GC-MS/MS
Extractables	UPLC-HRMS, GC-MS/MS and ICP-MS
Leachables	UPLC-HRMS, GC-MS/MS and ICP-MS

Analytical support

This service offers method development, validation, and quality issue investigation to ensure pharmaceutical, biopharmaceutical, and chemical products meet top safety and quality standards.

Development, validation and transference of analytical methods	Chromatographic methods
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Analysis of protein-based pharmaceuticals

We ensure the quality and regulatory compliance of protein-based pharmaceuticals, leveraging cutting-edge technologies and industry expertise to support clients in optimizing products for market success.

Peptide mapping	UPLC- HRMS
Intact protein molecular weight and isoforms	UPLC- DAD- HRMS
Glycopeptides and released glycans	UPLC- DAD- HRMS
Protein- drug engagement	UPLC- DAD- HRMS
Detection and quantitation of synthetic peptides	UPLC-MS/MS
Specific Protein quantitation	UPLC-MS/MS

Quality control

Analysis of nucleic acid-based biopharmaceuticals

We offer advanced nucleic acid-based biopharmaceutical product chemical analysis tailored to the specific needs of the biopharmaceutical industry.

ICP-MS Analysis

We offer high-quality development and validation services for analyzing final products, intermediates, APIs, and excipients using ICP-MS, ensuring reliable quality throughout the manufacturing process.

Analysis of DNA plasmid isoforms	AEX-LC-UV
Oligonucleotide exact mass measurement	UPLC-HRMS
Oligonucleotide purity determination and impurities identification	UPLC-DAD-HRMS
Oligonucleotide sequence confirmation	UPLC-DAD-HRMS
Oligonucleotide stability and degradation	UPLC-DAD-HRMS

Development and validation of methods by ICP-MS

Determination of the level of Elemental Impurities (ICH Q3D, USP <232> and <233>, EP (5:20) and (2.4.20))

Determination of the concentration of Contaminant Metals (Medicines, Food Supplements, Foodstuffs and packaging materials)

Quality control

Quality control & Stabillites

We conduct various analytical tests for various industries. Our proficient team ensures high-quality and flexible execution of activities.

Physicochemical methods

Spectrometry with IR, UV-Vis absorption
Chromatography: UHPLC, HPLC-DAD, HPLC-UV-VIS, HPLC-FL, HPLC-RI, GC-FID-HS and TLC
Determination of Total Organic Carbon (TOC)
Potentiometry
Other Titrations
Water analysis by Karl-Fisher

Pharmacotechnical tests

Disintegration Tests
Dissolution tests (for Solid forms)
Percutaneous absorption tests
Mass Uniformity
Friability
Tablet hardness
Apparent volume
Granulometry tests
Among others

Stability tests

Support in the development of the study design and preparation of the stability protocol
Sample storage in stability chambers under different climatic conditions
Execution of tests (results shared at pre-established moments)
Preparation of the final stability report at the end of the study

Quality control

Microbiological control

Our lab performs essential testing for raw materials and products in diverse environments, establishing us as leaders in meeting evolving safety demands.

- Development and validation of microbiological methods
- Microbiological control of products that are not necessarily sterile
- Water analysis and environmental control
- Assessment of the effectiveness of antimicrobial preservatives
- Identification of microorganisms
- Quantification of bioindicators
- Qualification of disinfectants
- Determination of microbiological contamination within the scope of cleaning validation
- Sterility
- Bacterial endotoxins

Medical cannabis

We can offer comprehensive solutions for the testing and validation of cannabis products, ensuring they meet the highest standards of safety and efficacy.

Analytical services

- Development and validation of analytical methods
- Quality control for batch release of medicinal cannabis (dry flower and extracts)
- Dosage of active ingredients (main cannabinoids THC and CBD, secondary cannabinoids and terpenes)
- Identification (Macroscopic, microscopic and TLC)
- Purity and safety (Degradation products, mycotoxins, foreign matter, microbiological control, loss on drying, water content, heavy metals, residual solvents and pesticides)



Contact us

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