

## Experience and Competence

The analytical department of AllessaChemie GmbH has extensive experience as a test facility within a diverse organization of a major chemical company. We offer this expertise to our business partners and customers in all segments of the chemical industry. Highly qualified employees are prepared and available to provide individual solutions.

This brochure will give you an overview of our analytical capabilities. It also provides you information regarding the opportunity to contract your analytical requirements in a modern laboratory within the chemical industry. For detailed information or inquiries please contact:

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## AllessaChemie GmbH – Compounds of Success

AllessaChemie GmbH, based in Frankfurt-Fechenheim (Germany), is a competent and reliable production partner of organic intermediates and end products. The company was founded on July 1, 2001 by taking over the locations Frankfurt-Fechenheim, Offenbach and some units of the Frankfurt-Griesheim site from Clariant AG, which in turn had acquired the fine chemical business from Hoechst AG in 1997. AllessaChemie GmbH's product portfolio comprises a broad spectrum of intermediates which are used by the specialty chemicals industry. In addition, the company produces various specialty chemicals for final processing by the customer, which are specifically tailored to the customer's needs.



## Quality Management

The analytical department of AllessaChemie GmbH maintains and operates within an integrated quality management system.

- **Based** on ISO / IEC 17025.
- **Approved** as a GLP (Good Laboratory Practice) test facility.
- **Working** in compliance with GMP (Good Manufacturing Practice) regulations and maintains a quality assurance system to meet the ISO 9001 standards and the environmental management requirements according to ISO 14001.
- **Certified** as a laboratory for waste water analysis according to the self-control directive of the German authorities.

## Analytics – Contract Services for the Industries



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## Quality Control, Structure Determination and Method Development

Our analytical department supports product development from the laboratory to the pilot plant through commercial production.

We are particularly experienced in the quality control of raw materials and finished products. Our expertise also includes the structure determination of unknown compounds and the development of analytical methods with subsequent validation. The applied techniques include:

### • **Chromatography**

Liquid- (HPLC, large scale HPLC), ion- (IC), thin layer- (TLC) and gas-chromatography (GC) as well as GC-MS, GC-MS-MS and HPLC-MS-MS techniques

### • **Atomic spectrometry**

Atomic absorption (flame, graphite tube), atomic emission (ICP-OES)

### • **Molecular spectroscopy**

NMR-, UV/VIS-, IR/NIR- and mass-spectroscopy

### • **Elemental analysis**

C, H, N, O, S analyser, halogens, sulphur, phosphorus after combustion (Wickbold, Wurzschnitt, Schöniger etc.)

### • **Classical analysis**

Volumetry, gravimetry, photometry, chemical characteristics, potentiometry, polarography

### • **Physico-chemical parameters**

Viscosity, particle size, calorimetry, X-ray diffraction

## Analytical testing on active pharmaceutical ingredients (APIs) and finished dosage forms

In full compliance with GMP requirements, we store drug substances and finished products in climatic test chambers for short- and long-term stability studies. The respective analyses are carried out in our specialized pharmaceutical control laboratory.

- **Quality** control tests for batch release according to specifications and pharmacopoeia
- **In-vitro** dissolution tests on formulations
- **Physical** tests on solid preparations (hardness, friability, disintegration)
- **Determination** of polymorphism
- **Analytical** assistance of validation of cleaning procedures
- **Method** development and validation in accordance with GMP directives



## Physico-chemical investigations in accordance with GLP for new substances, biocides and plant protection agents

In accordance with the GLP directives, all physico-chemical tests necessary for registration of new products are carried out in our test facility.

- **Investigations** required by biocide directive (EU Directive 98/8)
- **Analytical** measurements necessary for toxicological and ecotoxicological tests
- **Preparation** of certificates of analysis and measurement of spectra
- **5 batch** analysis of active ingredients and formulations for plant protection (OECD, EPA guidelines, CIPAC methods)
- **Substance** management and subcontracting of ecotoxicological and toxicological studies to reputable contract laboratories

## Determination of safety data and environmental analysis

The following safety characteristics are determined in-house in accordance with national and international regulations:

- **Combustibility** index
- **Burning** behavior
- **Self-heating** in air (wire basket tests)
- **Thermal** stability (DTA / DSC, heat accumulation tests)
- **Dust** explosion capability in a modified Hartmann tube
- **Flammability** and autoignition temperature

We carry out tests on hazardous substances and prepare workplace analyses in cooperation with the Environmental Health and Safety department.

- **Evaluation** of workplaces and sampling in accordance with TRGS 402
- **Pollutants** in fine and total dust
- **Inorganic** gases and vapors
- **Organic** gases and vapors

We routinely check all environment relevant parameters in waste and surface water

- **Group** parameters (AOX, CSB, TOC)
- **Anions**
- **Single** organic substances
- **Metals**