

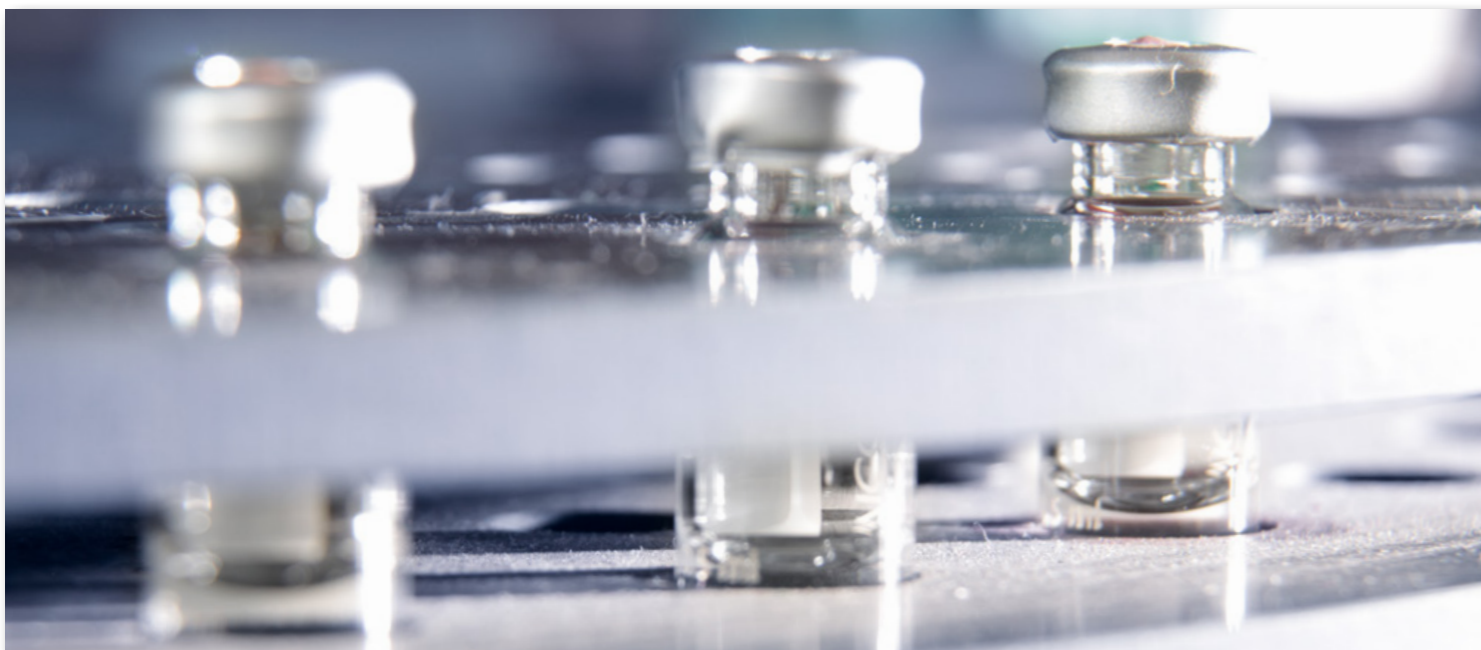
Innovation
Services



Analytical Services

Your reliable partner for quality solutions





Our services offered to customers

WeylChem InnoTec includes an analytics unit that offers a vast spectrum of analytical methods and techniques performed with state-of-the-art equipment. More than 40 experienced and highly qualified experts take care of your analytical requests quickly, professionally and effectively.

Quality control with method development and validation

We support your product development from lab scale to the pilot plant through to commercial production.

The analytics unit has particular experience in:

- ▀ Development of analytical methods with subsequent validation
- ▀ Structure determination, specific elemental analyses, dust and air measurements
- ▀ Quality control of raw materials and finished products

Available techniques include:

- ▀ Chromatography: HPLC/UPLC (e.g. CAD, ELSD, RI, MS), GC (e.g. headspace, MS), SEC, IC (conductivity, amperometric) and TLC
- ▀ Atomic spectroscopy: AAS, ICP-OES and ICP-MS
- ▀ Molecular spectroscopy: ^1H , ^{13}C , ^{19}F , ^{31}P NMR, UV/VIS, IR/NIR and MS
- ▀ Elemental analysis: C, H, N, O, S analyser and halogen, sulphur, phosphorus analyses after combustion (Wickbold, Wurzschnitt, Schöniger etc.)
- ▀ Classical analyses: Gravimetry, titration, KF water determination and polarography
- ▀ Physicochemical parameters: Conductivity, density, DTA/DSC, melting point, optical rotation, particle size (PSD), pH, reaction calorimetry (RC-1), surface tension, viscosity



Analytical services under GMP

Certified in compliance with GMP requirements (e.g. ICH, Ph. Eur., AMWHV)

- ▀ Quality control tests for batch release of API, raw materials, intermediates, products
- ▀ Method development and validation
- ▀ Storage of materials under ICH conditions for short- and long-term stability studies
- ▀ Packaging material testing
- ▀ In-vitro dissolution tests on finished dosage forms
- ▀ Analytical assistance for validation of cleaning procedures
- ▀ Physical tests on solid preparations

Investigations in accordance with GLP

In our certified test facility in accordance with GLP regulations (e.g. OECD, SANCO, EPA, CIPAC)

- ▀ Five-batch analysis of active ingredients and formulations, e.g. for plant protection
- ▀ Investigations required by biocide directives
- ▀ Analytical measurements necessary for toxicological and ecotoxicological tests
- ▀ Preparation of certificates of analysis
- ▀ Substance management and appropriate storage

Determination and evaluation of safety data

In accordance with regulations (e.g. GHS, REACH)

- ▀ Sameness testing and spectroscopy data
- ▀ Water solubility, partition coefficients, hydrolysis
- ▀ Combustibility index
- ▀ 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
- ▀ Reaction calorimetry and kinetic measurements (RC-1)
- ▀ Dust and air measurements including sampling

Our quality standards

WeylChem InnoTec's analytics unit upholds and operates within the following certified quality standards:

- GLP
- GMP
- ISO 9001
- ISO 14001
- ISO 50001

Contacts for inquiries

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