



HOW DO YOU KEEP UP WITH EVOLVING ENVIRONMENTAL REGULATIONS?



Last year, EAG Laboratories completed an expansion of its environmental testing facility in Ulm, Germany. The new 2,800 square meter (30,000 square feet) facility triples the location's capacity to meet growing demand for the environmental risk assessments required for global pesticide and chemical registrations and to comply with evolving U.S. EPA, EU, OECD, SANCO, REACH and TSCA regulations. How do you drive R&D productivity and comply with evolving environmental regulations? **Ask EAG. We know how.**

FACILITY EXPANSION IN ULM, GERMANY EXPANDS ENVIRONMENTAL TESTING CAPABILITIES

Facility Features and Instrumentation

- Seven analytical chemistry labs, each measuring nearly 40 square meters, as well as a lab dedicated to product chemistry.
- Three labs dedicated to e-fate and metabolism work with ¹⁴C-labelled radiotracer compounds, equipped with Packard LSC, Agilent/Radiomatic HPLC/LSC, Harvey Oxidizer, Packard Phosphor-Imager and an Heraeus Suntest CPS+ Xe instrument for photolysis studies.
- Two walk-in temperature-controlled (10 to 25°C) chambers adjacent to the radio-chemical labs.
- Seven air-conditioned instrument rooms hold five AB Sciex LC/MS/MS instruments (3000, 4000, 2x5500 with QTrap and SelexIon, 6500), four GC/MS/MS (Thermo TripleQuads and a Varian Ion Trap, including headspace injection techniques), a variety of GCs (ECD, FID, pFPD, TCD), HPLCs (UV/VIS, DAD), an FT-IR(ATR) instrument and a Karl-Fisher titrator for water determination.
- Three large walk-in freezers are dedicated to frozen sample storage, with additional box/chest freezers in the lab areas.
- Sample homogenization using dry-ice is done in a dedicated lab with several mills and grinders of various sizes.
- The labs are all equipped with large ventilated hoods and allow the use of older, well-established procedures involving oxidation, hydrolysis, reflux, steam-distillation, automatic Soxhlet extraction and GPC clean-up; as well as modern and miniaturized procedures based on SPE, dSPE, 96-well plate clean-up, and carousels for small sized hydrolysis and evaporation.



“EAG Laboratories is investing in a number of key areas aimed at bringing greater breadth of services and technical expertise to our customers.”

— Siddhartha Kadia,
President and CEO of EAG

Areas of Technical Expertise

EAG Laboratories' Ulm, Germany, location specializes in residue analysis, environmental fate, metabolism, and product chemistry studies.

- Development of chiral enantio/isomer-selective methods with separation of up to 8 or more isomers/enantiomers for batch/formulation (UV detection), for residue analyses (MS/MS detection) including chiral metabolites/degradates.
- Extraction efficiency, demonstrating equivalency of different extraction procedures, including hydrolysis and enzymatic deconjugation.
- Method development and validation in support of analysis of technical grade material and formulations for accurate purity determinations and for the determination of production and relevant (toxic or persistent) impurities, including metals analysis, in production batches of pesticides as well as in general chemicals (“5-batch” analysis, product chemistry, and for REACH registrations).
- Analytical support in environmental toxicity non-target plant, insect, animal or avian studies, requiring analysis of residues in many matrices (e.g., water, soil, sediments, etc.), insects (including honey bees), earthworms, mammals, fish, birds, and vegetation (herbs, flower heads, grass, seeds, pollen, guttation sap, etc.) If necessary methods can be tailored in order to address analytical challenges to specific complex matrices (e.g., sediment; tissue; salt water).

SUPPORTING ALL PHASES OF YOUR PRODUCT LIFECYCLE

From complete GLP-compliant programs to investigations and litigation support, the scientists of EAG support every phase of the product lifecycle.

Product Innovation & Improvement	Manufacturing & Supply Chain Support
Investigation & Troubleshooting	Quality Assurance
Regulatory Compliance	Consulting & Litigation

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