

### TOXIKON AT A GLANCE

#### Services



#### Capabilities

- » In Vitro Toxicology
- » Cell Based Assays
- » Immunology
- » Molecular Biology
- » ADME
- » Biochemistry
- » Hemocompatibility
- » Assay Validation/Qualification

#### Locations

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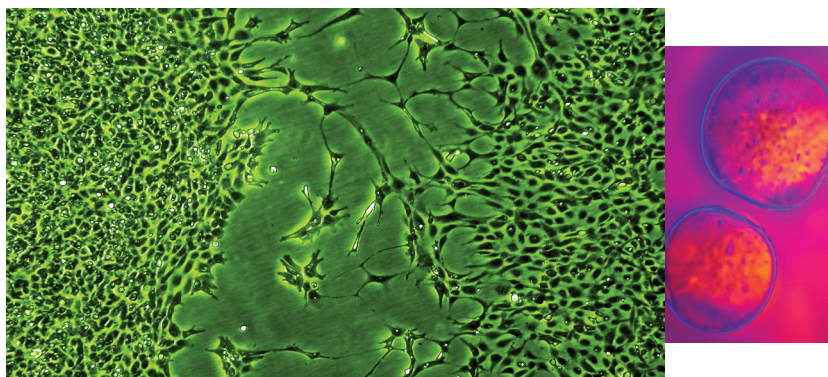
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With experience in cell biology and cell culture that spans more than 30 years, our staff employs scientific approaches and sophisticated techniques for product development. We can recommend a myriad of approaches and strategies together with our partners and provide contract services for cell based assays, tissue culture, immunology, immunotoxicology, molecular biology and biochemical analysis, including assay validation and qualification.

At Toxikon, we understand the importance of sound science for drug and medical device development, and we are committed to supporting you through the entire product development cycle, from concept to final product. Our approach involves three main values. First, we are committed to quality and scientific excellence. Second, our client-centric, collaborative approach will give you confidence knowing that our scientists understand your application, and third, the know-how to navigate the regulatory landscape for your product's development path.

#### Toxikon: Your Team of Experts

Our facilities and experienced laboratory management offer the highest quality of work in compliance with ICH, OECD, ISO 17025 and many other globally-recognized standards. With decades of experience, our team will collaborate with you as an extension of your firm to facilitate drug and device development, achieve product safety and regulatory compliance, as well as maintain the highest levels of laboratory quality control. Toxikon offers services that will facilitate product development by reducing the potential for product and process failure. Through collaboration and learning your application, Toxikon provides specific solutions and results that will facilitate development.



## Cell and Molecular Biology Overview

### Services at a Glance

Toxikon is an ISO/IEC 17025-accredited Contract Research Organization (CRO) registered with the FDA for drug, biologic, and medical device testing. With approximately 200 employees, Toxikon is committed to staying at the forefront of life science product development. Toxikon's safety services include toxicology (acute, subchronic, and chronic toxicity, reproductive toxicity, genetic toxicology, carcinogenicity), pharmacokinetics, toxicokinetics, bioavailability, ADME, chemical characterization, impurities analysis and synthesis, bioanalysis, and microbiology. Additionally, full IND/NDA enabling studies are performed with a multidisciplinary approach to program management. Toxikon's extensive certifications and licenses allow it to meet international regulatory requirements for data acceptability and harmonization.

To meet all applicable international GxP requirements, Toxikon's facilities are fully registered with FDA and USDA, and accredited with the Association for the Assessment and Accreditation of Laboratory and Animal Care International (AAALAC), and the International Organization for Standardization (ISO). Toxikon also has assurance with the National Institutes of Health so federally funded work can be performed at our facilities in compliance with NIH's Public Health Service Policy on Human Care and Use of Laboratory Animals (PHS Policy).

#### In Vitro Toxicology

- » Inhibition of Cell Growth Assays
- » Adherence
- » Morphology
- » Apoptosis
- » Protein Synthesis
- » RNA/DNA Synthesis
- » Agar Diffusion
- » L929.MEM / MTT
- » Neutral Red Uptake

#### Cell-Based Assays

- » Screening Assays
- » Stem Cell Culture / Testing
- » Flow Cytometry
- » Phase and Fluorescence Microscopy
- » Cell Binding, Activation and Turnover

#### Immunology

- » ELISA Assays
- » Isolation and Cell Characterization
- » Cytokine and Receptor Analysis
- » Western Blot
- » Radioimmunoassay (RIA)

#### Molecular Biology

- » PCR
- » DNA / RNA Isolation, Profiling and Sequencing
- » Gene Expression / Cloning
- » Microarrays
- » Biomarker Discovery

#### ADME

- » Caco-2 assay
- » Biodistribution
- » Cytochrome P450 assays  
Metabolism studies  
(hepatocytes, lysates)

#### Biochemistry

- » Enzyme Assay and Immunochemistry
- » Drug Potency / Concentration
- » Protein Production, Purification, and Analysis
- » Immunohistochemistry

#### Hemocompatibility

- » Hemolysis
- » Complement Activation
- » Prothrombin Time (PT)
- » Unactivated Partial Thromboplastin Time (UPTT)
- » Activated Partial Thromboplastin Time (APTT)
- » Platelet Aggregation
- » Clinical Hematology Analysis
- » Clinical Chemistry Analysis
- » Lee & White Clotting Time

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To learn more about Toxikon and our development capabilities, please visit us at [www.toxikon.com](http://www.toxikon.com)