

Endocrine Disruptor Screening Program (EDSP) Testing

Smithers Viscient provides Endocrine Disruptor Screening Program (EDSP) testing for the agricultural, chemical, personal care, and pharmaceutical industries. Our endocrine testing services include:

- *In vitro* toxicology
 - OPPTS 890.1150 Androgen Receptor (AR) Binding Assay
 - OPPTS 890.1200 Aromatase Assay
 - OPPTS 890.1250 Estrogen Receptor (ER) Binding Assay
 - OPPTS 890.1300 Estrogen Transcriptional Activation Assay
 - OPPTS 890.1550 Steroidogenesis Assay
- *In vivo* toxicology
 - OPPTS 890.1600 Uterotrophic Assay
 - OPPTS 890.1400 Hershberger Assay
 - OPPTS 890.1450 Pubertal Female Assay
 - OPPTS 890.1500 Pubertal Male Assay
- *In vivo* ecotoxicology
 - OPPTS 890.1100 Amphibian Metamorphosis Assay (AMA)
 - OPPTS 890.1350 Fish Short-term Reproduction Assay
- Future Commitment
 - Actively involved in Tier 2 test validations



Smithers Viscient provides customized and flexible portfolios of service, with scientific expertise and project management capabilities that ensure:

- Data quality
 - All assays have been validated in our laboratories
 - All assays are conducted under GLP
- Convenience of working with one company for all EDSP requirements
 - Experts in the fields of *in vitro* and *in vivo* toxicology together with our expert ecotoxicology staff
- The flexibility to choose a specific subset of the 11 assays
 - Customized services to meet your specific needs

***In vitro* Toxicology**

In vitro toxicology services are provided by CeeTox located in Kalamazoo, MI. CeeTox is the recognized leader in the *in vitro* toxicology arena. CeeTox has worked closely with the



US-EPA's Endocrine Disruption Screening Program (EDSP) and has evaluated hundreds of chemicals using a wide array of *in vitro* endocrine assays. CeeTox's capabilities include:

- Conducts all 5 EDSP *in vitro* assays in house
 - All assays have been validated internally
- Steroid analysis via ELISA or LC/MS/MS
- Additional *in vitro* assays available
- Data interpretation

***In vivo* Toxicology**

Headquartered in Research Triangle Park, NC, Integrated Laboratory Systems (ILS) has extensive experience in designing, conducting, evaluating and reporting *in vivo* toxicology studies. Since 1985, ILS has been dedicated to providing quality services at the highest level of integrity. ILS capabilities include:

- Conducts all 4 EDSP *in vivo* toxicology assays in house
 - All assays have been validated internally
 - Assistance with dose selection
- Participated in the Intact Male Rat Assay validation
- Standardized toxicology testing and investigational toxicology studies in rodent models
- Board Certified Toxicologists (DABT)
- American College of Laboratory Animal Medicine Certified Veterinarian (ACLAM)
- Certified Manager of Animal Resources (CMAR)
- State-of-the-art necropsy and histology suites
 - Including fish and amphibian models
- Board Certified Pathologists
- Data interpretation

***In vivo* Ecotoxicology**

For over 40 years, Smithers Viscient has been a leading global ecotoxicology Contract Research Organization (CRO). Headquartered in Massachusetts, Smithers Viscient offers customized testing solutions that address your specific issues, ensuring regulatory compliance. With research centers worldwide, Smithers Viscient performs standard and higher-tiered studies that satisfy all major regulatory requirements. Smithers Viscient endocrine disruptor testing capabilities include:

- Lead laboratory for the EPA validation of the fish short-term reproduction assay
- World leaders in fish full-life cycle testing
- Participated in the OECD EDC fish screening assay validation
- Member OECD amphibian metamorphosis assay (AMA) working group
- Participant in Phase 2 validation of the AMA
- Extensive experience with difficult to test substances and solvent free delivery systems
- Actively involved in the EPA Tier 2 definitive test validations



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