



## Screen with Confidence: EDSP Testing Services

When compliance is crucial to your ability to do business, you want a laboratory with a demonstrated history of high performance and technical expertise. RTI International has supported the US Environmental Protection Agency’s Endocrine Disruptor Screening Program (EDSP) since its inception. Our thorough understanding of EDSP requirements makes us the ideal choice for conducting your firm’s EPA-mandated assays. We offer a full range of in vitro and in vivo toxicology testing and provide expert consulting services, including OSRI review, data gap analysis, and study recommendations.

### Services

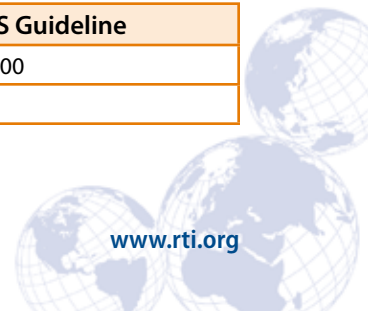
RTI offers complete Tier 1 mammalian screening and selected Tier 2 screening services.

#### Tier 1 Testing


| In vitro assays   | OPPTS Guideline |
|---|-----------------|
| Estrogen receptor binding assay using rat uterine cytosol (ER-RUC)                    | 890.1250        |
| Estrogen receptor transcriptional activation (ER-TA) [human cell line (HeLa-9903)]    | 890.1300        |
| Androgen receptor binding (rat prostate cytosol-RPC)                                  | 890.1150        |
| Steroidogenesis (human cell line H295R)   | 890.1550        |
| Aromatase (human recombinant)   | 890.1200        |
| In vivo assays  | OPPTS Guideline |
| Uterotrophic assay (ovariectomized or intact weanling)                                | 890.1600 (rat)  |
| Hershberger bioassay (castrate or intact weanling)                                    | 890.1400        |
| Pubertal development and thyroid function in intact juvenile/peripubertal male rats   | 890.1500        |
| Pubertal development and thyroid function in intact juvenile/peripubertal female rats | 890.1450        |

#### Tier 2 Testing

|                            | OPPTS Guideline |
|----------------------------|-----------------|
| Mammalian 2-generation     | 870.3800        |
| In utero through lactation |                 |

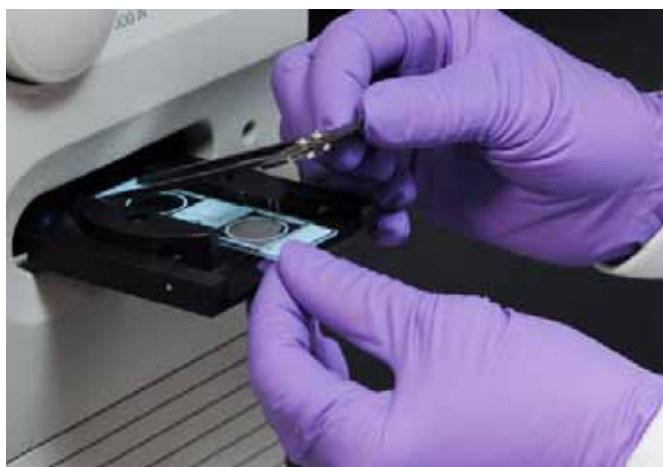


## The RTI-EDSP Timeline

|   |   |   |
|---|---|---|
|  | <b>1996–1998:<br/>EDSTAC</b>                          | RTI staff participated in the Endocrine Disruptor Screening and Testing Advisory Committee (EDSTAC), the federal advisory committee that made recommendations to EPA on how to develop the EDSP.  |
|   | <b>1998–2005:<br/>Prevalidation</b>                   | RTI provided prevalidation and validation for the following assays: male pubertal, female pubertal, estrogen receptor binding, placental aromatase, ovariectomized female uterotrophic, and castrated male Hershberger.                                       |
|   | <b>2006–2010:<br/>Assay validation<br/>and GLP</b>    | RTI participated in the validation and GLP use of the following hormone assays: aromatase, ER-RUC, sliced testes steroidogenesis, male and female pubertals, Hershberger, adult male, extended one generation, in-utero-through-lactation, ER-TA, and AR-RPC. |
|   | <b>Today: EDSP<br/>screening and<br/>tox services</b> | RTI is providing EDSP screening, testing, and consulting services to industry for Tier 1 and selected Tier 2 mammalian testing. Other services include reproductive toxicology testing, RACB, SCVCE, and adult male assays.                                   |

We also perform

- One-, two-, or more generation reproductive toxicity tests (OECD 415, 416, and EPA OPPTS 890)
- National Toxicology Program (NTP) reproductive assessment by continuous breeding (RACB) test with enhancements
- NTP sperm count vaginal cytology evaluations (SCVCE) for samples from NTP 90-day studies, including laboratory training
- Validation and publication of the intact female uterotrophic assay (Tyl et al., 2010)
- Adult male 15-day assay
- NTP modified one generation (MOG) test



Your assays will be handled by highly trained, experienced technicians in RTI's state-of-the-art facilities. Our team's credentials and their commitment to quality and compliance make RTI the laboratory of choice for EDSP screening.

- Our study directors and researchers have been conducting GLP-compliant studies for 10–30 years; they are experienced in managing GLP study records and writing GLP-compliant study reports.
- Our on-site quality assurance unit oversees process compliance.
- RTI offers comprehensive analytical chemistry support, statistical support, and hormone analysis on site.
- RTI has an AAALAC-accredited animal facility.
- RTI uses the Provantis data collection system.
- Our stand-alone Materials Handling Facility receives and expertly stores test compounds.
- RTI's partners, Wildlife International Ltd. and EPL, Inc., provide excellent ecotoxicology and histopathology services.

### More Information

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