A COMPREHENSIVE OFFER TO COVER ALL YOUR NEEDS

Watchfrog Laboratory is about than just testing your samples, we commit to support you on all topics related to endocrine distruptors. From training teams to elaborate action plans, selecting products to be tested or interpretating results. Watchfrog Laboratory has established a network of partners (toxicologists, regulatory experts, partner laboratories...).



DATA EVALUATION & ANALYSIS

- Preliminary assessment
- · Analysis of available data
- Literature search

Analysis of alerts

communication

Product strategy reviews
Support to substitution

Analysis of the quality of existing data

Opportunities and risks, prioritization

- Data gap assessment
- Implementation of a screening/testing strategy

SUPPORT TO YOUR STRATEGY

• Adapting the scientific vocabulary to your intern and public

Scientific article and position paper development

Providing tools for your risk assessments
Beeing at your side in case of alert



TESTING YOUR SAMPLES

- Level 1 OECD tests (scientific literature, *in silico...*)
- Level 2 OECD (in vitro)
- Level 3, 4 & 5 OECD tests (in vivo)
- \cdot Interpretation of results (hazard assessment)
- Mechanistic studies



TRAINING YOUR TEAMS

Legal and regulatory context
General training or tailor made
Scientific and technological surveys



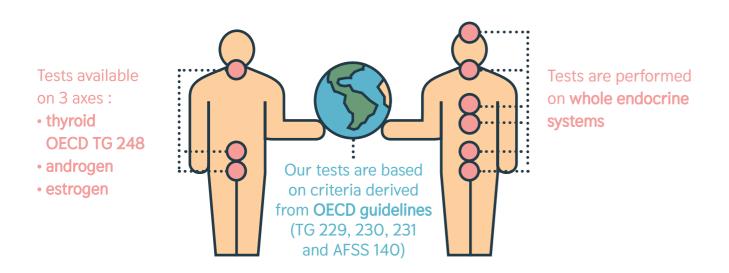
Endocrine disruptors: testing & assessment to secure your products



WATCHFROG SA - 1, rue Pierre Fontaine - 91000 EVRY - France - **+33 (0)1 69 36 11 15** info@watchfrog.fr - **watchfrog.fr** - SIRET : 484 872 551 00011 EPICEA.COM - 03/2022



Since 2005, Watchfrog Laboratory has helped cosmetics manufacturers & brands in securing their ingredients and products. This assessment includes generating data, analyzing the weight of evidence and taking into account the industrial context to provide the most appropriate solutions.



ENDOCRINE DISRUPTORS IN COSMETICS

Since 2013, European cosmetic regulation (n° 1223/2009) forbids the use of laboratory animals for testing. However, according to the European definition of endocrine disruptors, the weight of evidence related to endocrine disrupting criteria requires whole organism testing (OECD levels 3, 4 and 5), and cannot be achieved with cell based assays alone (level 2).

To address this challenge, Laboratoire Watchfrog exclusively offers in vitro alternative methods to replace the use of laboratory animals.

Our technology offers the advantage of being adapted to all of your samples





PACKAGINGS



THE WATCHFROG METHODOLOGY

A multiple objective

- detect possible endocrine activities
- measure the effect on a living organism
- understand the mechanism of action

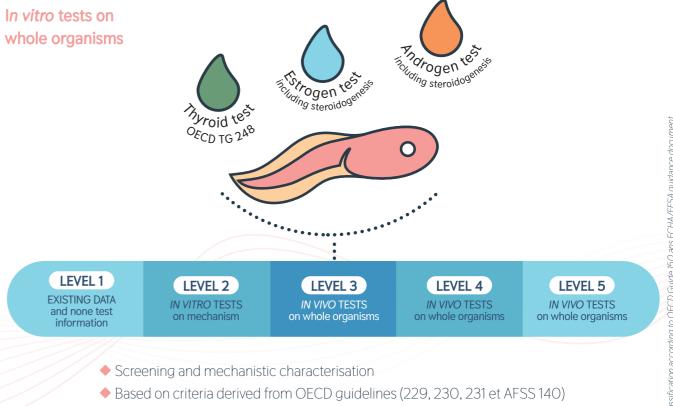
An ethical principle

In order to perform our tests

ethically, we use eggs from Medaka (fish from Asian rice fields) and Xenopus (amphibians). Their hormonal mechanisms at embryonic life stages are identical to those of adult animals and are conserved through the evolution of species up to humans.

Once hatched, we place them in contact with the samples to be tested for 24 to 72 hours.

The eggs carry a genetic construct composed of the promoter of the naturally occurring target gene, coupled to the fluorescence reporter gene GFP. This makes it possible to measure the level of endocrine activity induced by the test sample by measuring the level of fluorescence which is proportional to the effect. The target physiological response of endocrine disruptors is then revealed by an increase or decrease in the level of fluorescence.



- Included in the OECD evaluation strategy*

