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FACILITATING TOXICITY AND BIODEGRADABILITY EVALUATIONS

#biodegradation #ecotoxicity #ecotoxicology #screening
#highspeedmeasurement #pollution

Industrial companies test their products before they arrive on the market to ensure they comply with environmental standards – and especially to determine their level of biodegradability. One leading player in the chemical industry transforms raw materials and supplies specific ingredients to different industries, including cosmetology, pharmaceuticals and even agri-food. This company chose CAPACITÉS SAS to test the biodegradability and to assess the ecotoxicological character of a panel of 20 chemical substances.

DEVELOPING QUICK MINIATURIZED BIODEGRADABILITY AND TOXICITY TESTS

To meet this ingredient manufacturer's demand, Capacités' ecotoxicity experts conducted screening tests for the 20 chemical substances provided by the client.

They custom-developed miniaturized tests to qualitatively assess substance biodegradability and toxicity. These quick measurements allowed substances with satisfactory ecotoxicological characters to be selected more easily prior to official tests.

Substances with toxic and/or nonbiodegradable characters could also be identified among these substances.

The industrial company thus obtained a quick response regarding the ecotoxicological character of its substances. This will allow the company to comply with current environmental criteria. Additionally, the advantage of this approach is that it is less costly than traditional quantitative analysis methods.

To successfully complete this project, the Capacités' experts benefited from support and technical equipment from the GEPEA laboratory, joint research unit of the University of Nantes, Oniris, IMT Atlantic and CNRS (The French National Centre for Scientific Research). ■

Expertise :

- Analytical Chemistry
- Biodegradability

CAPACITÉS

Created in 2005, Capacités is the private engineering and research valorisation subsidiary of the University of Nantes. It employs 90 employees, mainly engineers and PhDs, who work directly with scientists in the research laboratories.



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