

# CATALOGUE

## ECOTOXICOLOGICAL TESTING

2015

**Institut Technologique FCBA**

**Ecotoxicology – Chemistry Laboratory**

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The recognised expertise of the Ecotoxicology-Chemistry laboratory qualifies its teams to participate in national and European standardisation work, as well as in scientific collaboration projects on an international scale. The laboratory conducts its work in compliance with a quality system and with recognized procedures (GLP - Good Laboratory Practice)

Since 1997, the Ecotoxicology-Chemistry laboratory has been recognizing Good Laboratory Practice (GLP). The GLP-recognized ecotoxicology-chemistry laboratory performs the experiments requested in different Regulations as Regulation (EU) No. 528/2012, Regulation (EC) No.1907/2006 REACH, Regulation (EC) No. 1107/2009.



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The prices include:

- Study protocol and report in English,
- Issue of draft report for approval.

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# AQUATIC ECOTOXICOLOGICAL TESTING

## Acute Testing

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## OECD 201 Algae Growth inhibition test

### Soluble – Static conditions

Test description	
OECD 201	Algae Growth inhibition test (soluble, static conditions, <b>Limit test</b> )
	Analytical support: at the beginning and end of the experiment at one concentration level) (test and control) (4 analyses)
OECD 201	Algae Growth inhibition test (soluble, static conditions, <b>Full test including range finding pre-test(*)</b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels (a low concentration, a concentration close to the EC50 and a high concentration) (test and control) (8 analyses)
OECD 201	Algae Growth inhibition test (soluble, static conditions, <b>3 levels test</b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels) (test and control) (8 analyses)

(\*) range finding pre-test non GLP

### Insoluble – Static conditions

Test description	
OECD 201	Algae Growth inhibition test (Insoluble, static conditions, <b>Limit test</b> )
	Analytical support: at the beginning and end of the experiment at one concentration level) (test and control) (4 analyses)
OECD 201	Algae Growth inhibition test (Insoluble, static conditions, <b>Full test including range finding pre-test(*)</b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels (a low concentration, a concentration close to the EC50 and a high concentration) (test and control) (8 analyses)
OECD 201	Algae Growth inhibition test (Insoluble, static conditions, <b>3 levels test</b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels) (test and control) (8 analyses)

(\*) range finding pre-test non GLP

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## OECD 202 *Daphnia magna*, acute immobilisation test Soluble – Static conditions

Test description	
OECD 202	<i>Daphnia magna</i> , acute immobilisation test (soluble, static conditions, <b>Limit test</b> )
	Analytical support: at the beginning and end of the experiment at one concentration level) (test and control) (4 analyses)
OECD 202	<i>Daphnia magna</i> , acute immobilisation test (soluble, static conditions, <b>Full test including range finding pre-test</b> (*))
	Analytical support: at the beginning and end of the experiment at three concentration levels (a low concentration, a concentration close to the EC50 and a high concentration) (test and control) (8 analyses)
OECD 202	<i>Daphnia magna</i> , acute immobilisation test (soluble, static conditions, <b>3 levels test</b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels) (test and control) (8 analyses)

(\*) range finding pre-test non GLP

## Insoluble – Static conditions

Test description	
OECD 202	<i>Daphnia magna</i> , acute immobilisation test (Insoluble, static conditions, <b>Limit test</b> )
	Analytical support: at the beginning and end of the experiment at one concentration level) (test and control) (4 analyses)
OECD 202	<i>Daphnia magna</i> , acute immobilisation test (Insoluble, static conditions, <b>Full test including range finding pre-test</b> (*))
	Analytical support: at the beginning and end of the experiment at three concentration levels (a low concentration, a concentration close to the EC50 and a high concentration) (test and control) (8 analyses)
OECD 202	<i>Daphnia magna</i> , acute immobilisation test (Insoluble, static conditions, <b>3 levels test</b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels) (test and control) (8 analyses)

(\*) range finding pre-test non GLP

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## Soluble – Semi- Static conditions

Test description	
OECD 202	<i>Daphnia magna</i> , acute immobilisation test (soluble, semi-static conditions, <b>Limit test</b> )
	Analytical support: at the beginning and end of the experiment at one concentration level) (test and control) (4 analyses)
OECD 202	<i>Daphnia magna</i> , acute immobilisation test (soluble, semi-static conditions, <b>Full test including range finding pre-test(*)</b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels (a low concentration, a concentration close to the EC50 and a high concentration) (test and control) (8 analyses)
OECD 202	<i>Daphnia magna</i> , acute immobilisation test (soluble, semi- static conditions, <b>3 levels test</b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels) (test and control) (8 analyses)

(\*) range finding pre-test non GLP

## Insoluble – Semi-Static conditions

Test description	
OECD 202	<i>Daphnia magna</i> , acute immobilisation test (Insoluble, semi-static conditions, <b>Limit test</b> )
	Analytical support: at the beginning and end of the experiment at one concentration level) (test and control) (4 analyses)
OECD 202	<i>Daphnia magna</i> , acute immobilisation test (Insoluble, semi-static conditions, <b>Full test including range finding pre-test(*)</b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels (a low concentration, a concentration close to the EC50 and a high concentration) (test and control) (8 analyses)
OECD 202	<i>Daphnia magna</i> , acute immobilisation test (Insoluble, semi-static conditions, <b>3 levels test</b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels) (test and control) (8 analyses)

(\*) range finding pre-test non GLP

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## OECD 203 Fish *Danio rerio*, acute toxicity test

### Soluble – Static conditions

Test description	
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (soluble, static conditions, <u>Limit test</u> )
	Analytical support: at the beginning and end of the experiment at one concentration level) (test and control) (4 analyses)
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (soluble, static conditions, <u>Full test including range finding pre-test(*)</u> )
	Analytical support: at the beginning and end of the experiment at three concentration levels (a low concentration, a concentration close to the EC50 and a high concentration) (test and control) (8 analyses)
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (soluble, static conditions, <u>3 levels test</u> )
	Analytical support: at the beginning and end of the experiment at three concentration levels) (test and control) (8 analyses)

(\*) range finding pre-test non GLP

### Insoluble – Static conditions

Test description	
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (Insoluble, static conditions, <u>Limit test</u> )
	Analytical support: at the beginning and end of the experiment at one concentration level) (test and control) (4 analyses)
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (Insoluble, static conditions, <u>Full test including range finding pre-test(*)</u> )
	Analytical support: at the beginning and end of the experiment at three concentration levels (a low concentration, a concentration close to the EC50 and a high concentration) (test and control) (8 analyses)
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (Insoluble, static conditions, <u>3 levels test</u> )
	Analytical support: at the beginning and end of the experiment at three concentration levels) (test and control) (8 analyses)

(\*) range finding pre-test non GLP

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## Soluble – Semi- Static conditions

Test description	
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (soluble, semi-static conditions, <b><u>Limit test</u></b> )
	Analytical support: at the beginning and end of the experiment at one concentration level) (test and control) (4 analyses)
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (soluble, semi-static conditions, <b><u>Full test including range finding pre-test(*)</u></b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels (a low concentration, a concentration close to the EC50 and a high concentration) (test and control) (8 analyses)
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (soluble, semi- static conditions, <b><u>3 levels test</u></b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels) (test and control) (8 analyses)

(\*) range finding pre-test non GLP

## Insoluble – Semi-Static conditions

Test description	
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (Insoluble, semi-static conditions, <b><u>Limit test</u></b> )
	Analytical support: at the beginning and end of the experiment at one concentration level) (test and control) (4 analyses)
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (Insoluble, semi-static conditions, <b><u>Full test including range finding pre-test (*)</u></b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels (a low concentration, a concentration close to the EC50 and a high concentration) (test and control) (8 analyses)
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (Insoluble, semi-static conditions, <b><u>3 levels test</u></b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels) (test and control) (8 analyses)

(\*) range finding pre-test non GLP

## OECD 236 Fish Embryo Test (FET)

Test description	
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (Soluble, static conditions, <b><u>Full test including range finding pre-test (*)</u></b> )
	Analytical support: at the beginning and end of the experiment at three concentration levels (a low concentration and a high concentration) (test and control) (6 analyses)

(\*) range finding pre-test non GLP

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## OECD 211 Daphnia magna reproduction test

### Soluble

Test description	
OECD 211	Daphnia magna reproduction test (soluble, semi-static) <b>Full test including range finding pre-test<sup>(*)</sup></b>
	Analytical support: once a week, before and after renewal (a low concentration, and a high concentration) (test and control) (18 analyses)

(\*) range finding pre-test non GLP

### Insoluble

Test description	
OECD 211	Daphnia magna reproduction test (insoluble, semi-static) <b>Full test including range finding pre-test<sup>(*)</sup></b>
	Analytical support: once a week, before and after renewal (a low concentration, and a high concentration) (test and control) (18 analyses)

(\*) range finding pre-test non GLP

## OECD 215 Fish, Juvenile Growth Test

### Soluble

Test description	
OECD 215	Fish, Juvenile Growth Test <b>Full test including range finding pre-test<sup>(*)</sup></b> (Soluble, semi-static)
	Analytical support: once a week, before and after renewal (a low concentration, and a high concentration) (test and control) (24 analyses)

(\*) range finding pre-test non GLP

### Insoluble

Test description	
OECD 215	Fish, Juvenile Growth Test <b>Full test including range finding pre-test<sup>(*)</sup></b> (insoluble, semi-static)
	Analytical support: once a week, before and after renewal (a low concentration, and a high concentration) (test and control) (24 analyses)

(\*) range finding pre-test non GLP

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## TERRESTRIAL ECOTOXICOLOGICAL TESTING



<b>OECD 207 Earthworm, Acute toxicity (<i>Eisenia fetida</i>)</b>	<b>p12</b>
<b>OECD 222 Earthworm reproduction test (<i>Eisenia fetida</i>)</b>	<b>p12</b>
<b>OECD 208 Seedling Emergence and Seedling Growth</b>	<b>p12</b>
<b>OECD 216 Soil microorganism one soil, Nitrogen transformation test</b>	<b>p12</b>
<b>OECD 217 Soil microorganism one soil, Carbon transformation test</b>	<b>p12</b>



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## Effects on Earthworms

Test description	
OECD 207	Earthworm, Acute toxicity ( <i>Eisenia fetida</i> )
OECD 222	Earthworm - Pre-test Non GLP
OECD 222	Earthworm reproduction test ( <i>Eisenia fetida</i> ) – Test limit
OECD 222	Earthworm reproduction test ( <i>Eisenia fetida</i> ) – Full test

## Effects on Plants

Test description	
OECD 208	Range finding pre-test – Non GLP
OECD 208	<b>Short-term toxicity to plants :</b> Terrestrial Plant Test: Seedling Emergence and Seedling Growth 3 species (1 monocotyledones and 2 dicotyledones) and analytical support on tested concentrations
OECD 208	<b>Long-term toxicity to plants:</b> Terrestrial Plant Test: Seedling Emergence and Seedling Growth 6 species (2 monocotyledones and 4 dicotyledones) and analytical support on tested concentrations

## Effects on soil - micro-organisms

Test description	
OECD 216	Soil microorganism one soil, exposure time 28 d, Nitrogen transformation test (nitrate content)
OECD 217	Soil microorganism one soil, exposure time 28 d, carbon transformation test

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## EFFECTS ON BIOLOGICAL METHODS FOR SEWAGE TREATMENT READY BIODEGRADABILITY



**OECD 209 Inhibition of microbial activity: Activated sludge respiration inhibition** p14

**OECD 301 D Ready biodegradability - Closed bottle study** p14

**OECD 301 F Ready biodegradability - Manometric respirometry study** p14



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### Effects on biological methods for sewage treatment

Test description	
OECD 209	Non-GLP pre-test, 3 test item concentrations (10, 100 and 1000 mg/L), untreated control and abiotic control
	<b>Inhibition of microbial activity:</b> Activated sludge respiration inhibition, Dose response study, 5 test item concentrations (5 replicates), 5 concentrations of DCP (5 replicates), untreated control (6 replicates)

### Fate and behaviour in the environment

Test description	
OECD 301D	Ready biodegradability - Closed bottle study
OECD 301F	Ready biodegradability - Manometric respirometry study
/	Elementary analysis in order to calculate the ThOD (theoretical Oxygen Demand) for the ready biodegradability testing, if relevant

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## Validation of analytical methods of active substance in ecotoxicology solution (Algae, Daphnids, Fish)

Test description
Analytical validation for the chemical analysis of active substance in media according to SANCO 3029/99 rev.4 Substance analysed by HPLC/DAD/Fluorescence or by GC/FID/ECD or by ICP/OES or by TOC or by IC (ionic chromatography).



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