

CATALOGUE

ECOTOXICOLOGICAL TESTING

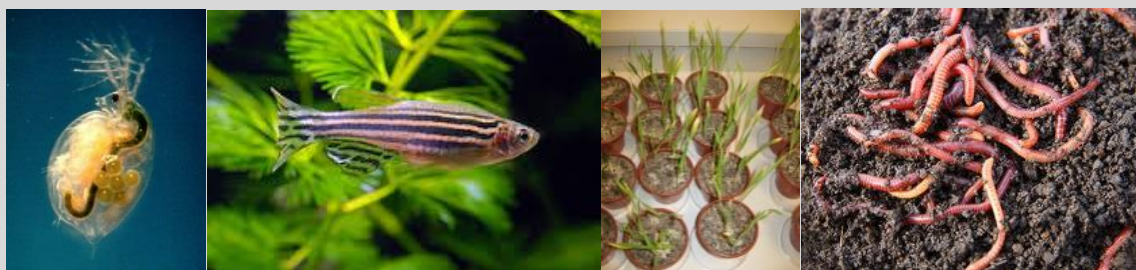
Institut Technologique FCBA

Ecotoxicology – Chemistry Laboratory

Allée de boutaut

BP 227

33028 Bordeaux Cedex



Your contact
Ecotoxicology-Chemistry Lab
Stéphane LEGAY
Tel : +33 (0)5 56 43 63 50
stephane.legay@fcba.fr

Test Facility Bordeaux
Allée de Boutaut - BP 227
33028 Bordeaux Cedex
Tél +33 (0)5 56 43 63 00

Head office
10, rue Gallée
77420 Champs sur Mame
Tél +33 (0)1 72 84 97 84

www.fcba.fr
Siret 775 680 903 000132
APE 7219Z
Code TVA CEE : FR 14 775 680 903

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.



Your FCBA Contact:

Stephane LEGAY

Technical manager

Phone: + 33 (0)5 56 43 63 50

Email:

stephane.legay@fcba.fr

Institut Technologique FCBA

Ecotoxicology – Chemistry Laboratory

Allée de boutaut

BP 227

33028 Bordeaux Cedex

FRANCE

www.fcba.fr

The prices include:

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

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 77420 Champs sur Marne
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AQUATIC ECOTOXICOLOGICAL TESTING

Acute Testing

OECD 201 Algae Growth inhibition test	p5
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OECD 211 <i>Daphnia magna</i> reproduction test	p10
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OECD 201 Algae Growth inhibition test

Soluble – Static conditions

Test description	
OECD 201	Algae Growth inhibition test (soluble, static conditions, Limit test)
	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, Full test including range finding pre-test(*))
	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, 3 levels test)
	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, Limit test)
	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, Full test including range finding pre-test(*))
	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, 3 levels test)
	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, Limit test)
	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, Full test including range finding pre-test (*))
	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, 3 levels test)
	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, Limit test)
	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, Full test including range finding pre-test (*))
	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, 3 levels test)
	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, Limit test)
	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, Full test including range finding pre-test(*))
	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, 3 levels test)
	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, Limit test)
	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, Full test including range finding pre-test(*))
	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, 3 levels test)
	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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 77420 Champs sur Marne
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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, <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, semi-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, semi- 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 – Semi-Static conditions

Test description	
OECD 203	Fish <i>Danio rerio</i> , acute toxicity test (Insoluble, semi-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, semi-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, semi-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

OECD 236 Fish Embryo Test (FET)

Test description	
OECD 236	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 and a high concentration) (test and control) (6 analyses)

(*) range finding pre-test non GLP

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 33028 Bordeaux Cedex
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OECD 211 Daphnia magna reproduction test

Soluble

Test description	
OECD 211	Daphnia magna reproduction test (soluble, semi-static) Full test including range finding pre-test^(*)
	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) Full test including range finding pre-test^(*)
	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 Full test including range finding pre-test^(*) (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 Full test including range finding pre-test^(*) (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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 33028 Bordeaux Cedex
 Tél +33 (0)5 56 43 63 00

Head office
 10, rue Gallée
 77420 Champs sur Marne
 Tél +33 (0)1 72 84 97 84

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 APE 7219Z
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TERRESTRIAL ECOTOXICOLOGICAL TESTING



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



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Head office
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 77420 Champs sur Mame
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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	Short-term toxicity to plants : Terrestrial Plant Test: Seedling Emergence and Seedling Growth 3 species (1 monocotyledones and 2 dicotyledones) and analytical support on tested concentrations
OECD 208	Long-term toxicity to plants: 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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 33028 Bordeaux Cedex
 Tél +33 (0)5 56 43 63 00

Head office
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 77420 Champs sur Marne
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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
	Inhibition of microbial activity: 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 301A	Ready biodegradability- DOC Die-away test
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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