### [Form 8] Report on the Results of the Daphnia Acute Immobilization Test

### 1. General information

Name of new chemical substance			
(based on the IUPAC nomenclature			
system)			
Other name			
CAS no.			
Structural or rational formula (if			
neither is available, summarize its			
formulation method)			
Molecular weight			
Purity of the new chemical			
substance used for the test (%)			
Lot number of the new chemical			
substance used for the test			
Names and contents of impurities			
Vapor pressure			
Solubility in water			
1-Octanol/water partition coefficient			
Melting point			
Boiling point			
Properties at room temperature			
Stability			
Solubility in solvents, etc.	Solvent	Solubility	Stability in solvent
			•

[Notes] Provide the physicochemical properties wherever possible.

- 1. Fill in the "Vapor pressure" column with the vapor pressure of the test substance.
- 2. Fill in the "Stability" column with the stability of the test substance against temperature, light, etc.
- 3. Fill in the "Solubility in solvents, etc." column with the solubility and stability of the test substance in a solvent.

2. Method for analyzing the test substance concentration in the test solution

Items	Methods
Analytical method	
Pretreatment	
Quantification conditions	

### [Notes]

- 1. Specify the analytical method used for the measurement in "Analytical method".
- 2. Summarize the treatment performed prior to the analysis in "Pretreatment". Specify the means used for isolating the algal cells.
- 3. Write the apparatuses and conditions such as temperature and eluate used for the analysis in "Quantification conditions".

#### 3. Test materials and methods

Items			Contents
Test organism	Species (S	cientific name • strain • age in	Contonio
rest organism	hours)	cientific name strain age in	
	Source		
		lity to the reference substance	
	(EC <sub>50</sub> )	my to the reference substance	
	( 50)	the reference substance)	
Culture	Kind of me		
	Environme		
	temperature, photoperiod)		
Test conditions	Test vessel		
	Material	Kind (natural water,	
	water	dechlorinated tap water,	
		artificially prepared water,	
		etc.)	
		Hardness	
		pН	
	Date of ex	posure	Month/Day/Year-Month/Day/Year
	Test conce	ntrations (nominal values)	(geometric ratio)
	Number of	organisms	organisms/test vessel
	Number	Exposure group	_
	of	Control group	
	replicates	-	
	Test solution	on volume	
	Vehicle	use or not	
		kind	
		concentration(s)	
		number of replicates for	
		vehicle control group method (static, semi-static,	
	flow-throu		
	Conditions		
	flow-through Water temperature Dissolved oxygen concentration (DO) Photoperiod		
			°C
			mg/L
Calculation of	Statistical method		
results			

# [Notes]

- 1. Write the results (specify the reference substance and write the  $EC_{50}$ ) of the susceptibility test of the test organism in "Susceptibility to the reference substance".
- 2. List all test substance concentrations used for the test and the geometric ratio in "Test concentrations (nominal values)".
- 3. Write the material and volume of the test vessel in "Test vessel" in "Test conditions". For a volatile test substance, write whether the vessel was sealed or unsealed.
- 4. Specify the statistical analysis method (e.g., probit, etc.) used for calculating the toxicity value ( $EC_{50}$ ) in "Statistical method".

#### 4. Test results and discussion

Items	Contents
Toxicity value	$48hEC_{50} = mg/L$
Exposure concentrations used for calculation	1. nominal values 2. measured values
Remarks	

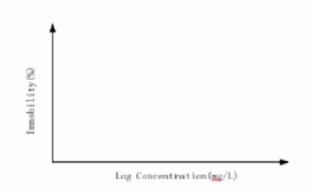
#### [Notes]

- 1. Write the EC<sub>50</sub> for immobilization for 48 hr in "Toxicity value".
- 2. Specify whether the concentrations used for calculating the toxicity value ( $EC_{50}$ ) were nominal or measured values in "Exposure concentrations used for calculation".
- 3. Discuss the characteristics of the toxicity value and the validity of the test based on the physicochemical properties of the test substance in "Remarks". Write the influence on the test results, etc., of any anomaly observed in the test or any deviation from the test method.

#### 5. Daphnia concentration-immobilization rate curve

Attach a figure showing the *Daphnia* immobilization rates at individual test concentrations (Figure example 1) during the exposure period.

Figure example 1 Daphnia concentration-immobilization rate curve



# 6. Others

Testing agency	Name		
	Address	Tel:	Fax:
Test director	Name and status		
	Years of		
	experience		
Test ID number			
Test period	From (month) (day) (year) to (month) (day) (year)		

# [Notes]

- 1. Fill in the present form by transcribing from the final report.
- 2. Fill in the test ID number reported in the final report.
- 3. In the margin of this form, provide the name and affiliation of the person in charge of filling in this form.