

[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 (Scientific name • strain • age in hours)		
	Source		
	Susceptibility to the reference substance (EC ₅₀) (Name of the reference substance)		
Culture	Kind of medium		
	Environmental conditions (water temperature, photoperiod)		
Test conditions	Test vessel		
	Material water	Kind (natural water, dechlorinated tap water, artificially prepared water, etc.)	
		Hardness	
		pH	
	Date of exposure	Month/Day/Year-Month/Day/Year	
	Test concentrations (nominal values)	(geometric ratio)	
	Number of organisms	organisms/test vessel	
	Number of replicates	Exposure group	
		Control group	
	Test solution volume		
	Vehicle	use or not	
		kind	
		concentration(s)	
		number of replicates for vehicle control group	
	Culture method (static, semi-static, flow-through, etc.)		
	Conditions for water renewal or flow-through		
Water temperature	°C		
Dissolved oxygen concentration (DO)	mg/L		
Photoperiod			
Calculation of results	Statistical method		

[Notes]

1. Write the results (specify the reference substance and write the EC₅₀) 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 (EC₅₀) 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 EC₅₀ for immobilization for 48 hr in “Toxicity value”.
2. Specify whether the concentrations used for calculating the toxicity value (EC₅₀) 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.