

[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.