

## Strain Deposit Request and Agreement Form

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Date:

Depositor's full name with family name in capitals:

Depositor's affiliation and address:

Tel.:

Fax:

E-mail:

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**I wish to deposit the following microbial culture strain in the NIES-Collection.**

### [Reason for deposit]

### [Basic information]

Scientific name with author name(s):

Division:

Class:

Order:

Family:

Synonym:

Identified by (full name with family name in capitals):

Identification year:

Strain designation or code:

Other collection name and number (If the depositor has deposited the same strain in other collections):

### [Collection]

Collection date:

Collector's name (full name with family name in capitals):

Site information

Latitude and longitude as GPS or WGS-84 geographic coordinates:

Country:

Address (most detailed one):

Place name (e.g. name of river, lake, pond, bay and coast):

Ocean name and nearest country to site:

Habitat: marine freshwater brackish (salinity: ‰) terrestrial salt water hot spring  
cold spring snow ice others ( )

Details of habitats: oligotrophic mesotrophic eutrophic dystrophic surface

depth in chlorophyll max other depth (– m) other ( )

Details of marine environment: coastal pelagic tidal pool tidal flat mangrove estuary  
harbor other ( )

Details of freshwater environment: lake pond reservoir river stream ditch wetland  
rice field other ( )

Details of terrestrial environment: farm land forest floor bark stone wall other  
( )

Other information or comments on the habitat:

### [Isolation]

Date of isolation:

Isolator's name (full name with family name in capitals):

Source of isolation: water seawater sand sediment soil lichen plant seaweed  
seagrass coral sponge other animals ( ) snow ice  
other ( )

Isolation objective: motile vegetative cell non-motile vegetative cell spore tetraspore  
carospore zygote parthenogenetic gamete thallus other ( )

Isolation method: single-cell isolation by pipette washing cut-out of specimen dilution single colony isolation by agar plating taxis flow cytometry with cell sorter other ( )  
Notes on isolation conditions (e.g. medium, light, temperature, if different from maintenance conditions):

Treatment at isolation: none antibiotics (name: , mg/L) germanium dioxide (GeO<sub>2</sub>)( mg/L) other chemicals (name: , mg/L) ultra-sonic wave UV radiation after cyst germination other ( )

### [Strain status]

Algae and cyanobacteria: 1) unialgal or mixed  
2) clonal or non-clonal  
3) axenic, non-axenic or non-axenic required  
Protozoa: axenic , non-axenic or non-axenic required or monoxenic ( as food)  
or mixed  
Date of bacteria-free check:

### [Preservation conditions]

Medium name:  
Reference for medium:  
Medium phase: liquid semi-solid solid soil water biphasic  
Notes for preparation of medium:

#### Sub-culturing conditions

Temperature: °C (pre-culture temperature if needed, °C)  
Light intensity:  $\mu\text{mol m}^{-2} \text{s}^{-1}$ , or lux (preculture light intensity if needed  $\mu\text{mol m}^{-2} \text{s}^{-1}$ , or lux)  
Light source: LED lamps white fluorescent lamps daylight fluorescent lamps natural light  
other ( )  
Light-Dark cycle: 12 h/ 12 h others ( h/ h)  
Interval of transfer: days or month(s) (pre-culture duration if needed, days)  
Culture vessel: test tube Erlenmeyer flask plastic culture flask other ( )  
Additional notes on culture conditions (e.g. information for optimal growth conditions, transfer methods, quantity of cells to transfer:  
Remarks on how to recover a good growth when strain state is bad:

Cryopreservation: yes no unknown

Cryoprotectant: (concentration: %)  
Cryopreserved in: vapor-phase liquid nitrogen liquid-phase liquid nitrogen -80°C freezer  
other ( )  
Methods: two step cooling (cool until °C at a rate of °C/min, hold at °C for min, and plunge into liquid N<sub>2</sub>)  
other methods: ( )  
Special notice for incubation just after thawing (e.g. darkness, dim light):  
References for methods:  
Notes and comments on cryopreservation:

Freeze-drying: yes no unknown

Method:  
Reference for method:

L-drying: yes no unknown

Method:  
Reference for method:

### [Characteristics]

Environmental characteristics

- red tide water bloom toxic predator of water bloom-forming species
- offensive taste offensive odor filter and screen clogging decomposes hazardous substances
- AGP (algal growth potential) test bioindicator
- other ( )

Physiological and ecological characteristics

- autotrophic heterotrophic mixotrophic phagotrophic auxotrophic (requires )
- mutant (which kind?; )
- nitrogen-fixing
- planktonic benthic endophytic periphytic (epiphytic epilithic other ( ))
- symbiotic parasitic
- thermophilic cryophilic halophilic acidophilic xerophilic
- phototaxic chromatic adaptation bioluminescence
- hydrogen-evolving oil (hydrocarbon) -producing high CO<sub>2</sub>-fixing
- cosmopolitan endemic to (country/area name: )
- other ( )

Miscellaneous characteristics

- type strain (or authentic strain if eukaryotic)
- taxonomically (evolutionarily, phylogenetically) important(details: )
- heterothallic homothallic dioecious monoecious
- isogamous anisogamous oogamous
- mating type(+) mating type(-) female male
- life cycle known  
(details: )
- life cycle unknown
- resting spore-forming
- other ( )

References for these characteristics reported using the deposited strain:

**[Genetic information (please write down all registered data)]**

Accession no. (with gene name and registration date):

Registrant (full name with family name in capitals):

**[References]**

Publications in which the strains were used (please make a reference list according to the example below)

(Example) Otsuka, S., Suda, S., Shibata, S., Oyaizu, H., Matsumoto, S., Watanabe, M. M. 2001. A proposal for the unification of five species of the cyanobacterial genus *Microcystis* Kützing ex Lemmermann 1907 under the rules of the Bacteriological Code. *Int. J. Syst. Evol. Microbiol.*, 51, 873–879.

Other references relevant to the strain(s) (e.g. references used for identification; please make a reference list according to the example above)

**[Patents and other intellectual properties]** yes no

**[Any other remarks and comments]**

**Agreement for deposition**

1. The depositor shall deposit the strain in the NIES-Collection without charge. The transfer of intellectual

- properties is not included in the agreement. The NIES-Collection may maintain and culture the strain (including DNA) and distribute it to users.
2. The depositor shall submit accurate strain data to the NIES-Collection; these data shall include patents, properties and states of the strain.
  3. The strain shall be free from any limitation, legally and contractually, pursuant to one of the following reasons (please tick):
    - The strain was isolated/developed by the depositor.
    - The strain is deposited with the permission of the isolator/developer/collaborator of the original country (if collected in a foreign country).
    - The strain has been purchased without any limitation regarding the deposit thereof, and with the permission of the original collection.
  4. The NIES-Collection may distribute the deposited strains to users in accordance with the following condition (please tick):
    - The strain shall not be disclosed to the public until the paper regarding the strain has been published
    - Other reason ( )This condition will last no longer than 1 year, and the strain will be open to the public even if the depositor imposes conditions. If the depositor does not specify any conditions, then the strain will be open to the public immediately after approval by the Committee for Evaluating Microbial Culture Strains.
  5. The NIES-Collection shall bear no responsibility for inevitable change and loss during maintenance, or for loss caused by natural disasters.
  6. The NIES-Collection may stop the maintenance and distribution of the strain in accordance with a decision made by the Committee for Evaluating Microbial Culture Strains.

The NIES-Collection (the Collection) and the depositor make two copies of the agreement; the Collection and the depositor each hold one.

We, the NIES-Collection (the Collection) and the depositor, accept the above conditions in order to transfer the strain(s).

**<<Collection>>**

Organization: Microbial Culture Collection,  
Biodiversity Resource Conservation Office,  
Biodiversity Division,  
National Institute for Environmental Studies  
Address: 16-2, Onogawa, Tsukuba, Ibaraki 305-8506, Japan

Director:  
Signature:  
Date:

**<<Depositor>>**

Organization:

Address:

Name of depositor (with title):  
Signature:  
Date: