



# 51146

51146™

## Description

Type strain. Genome sequencing strain.

**Strain designation:** SU-A4 [CCUG 30254]

**Deposited As:** *Campylobacter showae* Etoh et al.

**Type strain:** Yes

---

## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

---

## Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

---

## BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always

## 51146

51146

used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

---

### Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

---

### Growth Conditions

**Medium:**

ATCC Medium 1540: Brucella broth with formate and fumarate

ATCC Medium 1645: Trypticase soy agar with 5% defibrinated sheep blood, formate and fumarate

**Temperature:** 37°C

**Atmosphere:** Anaerobic

---

### Handling Procedures

1. Add Formate/Fumarate Supplement to all media to be used as described in the notes section.
2. Open vial according to enclosed instructions.
3. Under anaerobic conditions, thaw vial and transfer entire contents to a single tube of #1540 broth.

**51146**

51146

4. Additional broth can be inoculated using 0.2 mL of this cell suspension per tube. A slant and plate of #1645 may also be inoculated with 0.1 mL each of the cell suspension. An aerobic blood plate may also be streaked to check for purity.
5. Incubate the broth tubes, slants, and plates at 37°C under anaerobic conditions. Incubate aerobic blood plate at 37°C.
6. 1-2 days of incubation are required before visible growth is evident. Initial growth may take up to 7 days. No growth should be seen on the aerobic plate.

**ANAEROBIC CONDITIONS:**

Anaerobic conditions for transfer may be obtained by either of the following:

- Use of an anaerobic gas chamber.
- Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in anaerobic chamber
- Loose screw caps on test tubes in an activated anaerobic gas pack jar
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

---

**Notes**

\*Formate/Fumarate Supplement:

Prepare a solution containing sodium formate and fumaric acid at a concentration of 6% each in distilled water; adjust pH to 7.0, and filter sterilize.

Prior to inoculation, add 0.25 mL of this solution to each 5.0 mL broth tube. Also add 0.25 mL to each agar slant and agar plate. Use a loop to spread the Formate and Fumarate solution over the agar surface of the plate until dry, and then inoculate with the organism.

Always use freshly prepared prereduced media or prereduced media that has been previously prepared but stored under anaerobic conditions.

## 51146

51146

Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

---

### Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: 51146 (ATCC 51146)

---

### References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

---

### Warranty

The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

---

### Disclaimers

**51146**

51146

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use. Any proposed commercial use is prohibited without a license from ATCC.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate or complete and the customer bears the sole responsibility of confirming the accuracy and completeness of any such information.

This product is sent on the condition that the customer is responsible for and assumes all risk and responsibility in connection with the receipt, handling, storage, disposal, and use of the ATCC product including without limitation taking all appropriate safety and handling precautions to minimize health or environmental risk. As a condition of receiving the material, the customer agrees that any activity undertaken with the ATCC product and any progeny or modifications will be conducted in compliance with all applicable laws, regulations, and guidelines. This product is provided 'AS IS' with no representations or warranties whatsoever except as expressly set forth herein and in no event shall ATCC, its parents, subsidiaries, directors, officers, agents, employees, assigns, successors, and affiliates be liable for indirect, special, incidental, or consequential damages of any kind in connection with or arising out of the customer's use of the product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of such materials.

Please see the material transfer agreement (MTA) for further details regarding the use of this product. The MTA is available at [www.atcc.org](http://www.atcc.org).

---

## Copyright and Trademark Information

© ATCC 2023. All rights reserved.

ATCC is a registered trademark of the American Type Culture Collection.

---

## Revision

**51146**

51146

This information on this document was last updated on 2022-10-22

---

## Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: [tech@atcc.org](mailto:tech@atcc.org) or contact your local distributor

---