



Clostridium kluyveri Barker and Taha

8527™

Product Sheet

Description

Type strain

Strain designation: K1 [ATCC 12489, NCIB 10680]

Deposited As: *Clostridium kluyveri* Barker and Taha

Type strain: Yes

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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 1

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 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.

Growth Conditions

Medium:

ATCC Medium 1120: *Clostridium Kluyveri* Medium

ATCC Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

Temperature: 37°C

Atmosphere: Anaerobic

Handling Procedures

1. Open vial according to enclosed instructions.
2. Perform all steps under anaerobic conditions (*see below*).
3. Under anaerobic conditions, withdraw 0.5 mL of recommended broth from a single test tube (5 to 6 mL) and rehydrate the entire vial contents.
Immediately place the re-hydrated pellet under a stream of oxygen-free sterile

- gas. Then aseptically transfer this aliquot back into the broth tube. A slant and a pre-reduced blood plate 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.
4. Incubate tubes and plate under anaerobic conditions at 37°C. Incubate blood plate aerobically at 37°C.
 5. In 3 to 5 days, growth should be evident by turbidity in the broth. After growth has been established, the culture needs to be transferred every 2 to 3 days.
 6. This culture is very sensitive to oxygen; therefore steps should be taken to avoid exposure to oxygen. When the culture exhibits good growth it will remain viable for up to 1 week if stored at 4°C.

ANAEROBIC CONDITIONS:

- Tubes of media are placed under a gassing cannula system hooked to a source of oxygen-free gas.
- All transfers are performed while the test tubes are on the cannula system with a gentle stream of oxygen-free gas flowing through the system.
- As the test tubes are removed from the cannula, each is sealed with butyl rubber stopper thus maintaining the anaerobic headspace.

Notes

This organism requires fresh medium to grow.

Additional information on this culture is available on the ATCC® web site at www.atcc.org.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Clostridium kluyveri* Barker and Taha (ATCC 8527)

References

References and other information relating to this material are available at www.atcc.org.

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