



# ***Clostridium estertheticum subsp. laramiense*** **(Kalchayanand et al.) Spring et al.**

51254™

## **Description**

**Strain designation:** NK1 [DSM 14864]

**Deposited As:** *Clostridium laramie* Kalchayanand et al.

**Type strain:** Yes

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## **Storage Conditions**

**Product format:** Frozen

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## **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.

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## **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

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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.

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## **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).

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## **Growth Conditions**

### **Medium:**

ATCC Medium 1017: Chopped meat glucose medium (ATCC Medium 593) with 5.0 g glucose

**Temperature:** 10°C

**Atmosphere:** Anaerobic

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## **Handling Procedures**

**1. Open vial according to enclosed instructions.**

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**2. Under anaerobic conditions, withdraw 0.5 ml of #1017 from a single test tube (5 to 6 ml) and rehydrate the entire vial contents.**

**3. Aseptically transfer this aliquot back into the broth tube. Additional tubes may be inoculated with 0.5 ml each from the suspension. Streak two blood plates to check for purity.**

**4. Incubate tubes under an anaerobic atmosphere at 10°C for 10-14 days. Incubate one agar plate anaerobically, and one aerobically, for aerobic contamination check.**

**ANAEROBIC CONDITIONS:**

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

- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system connected 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, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

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## Notes

After 10-14 days, growth is evidenced by turbidity and gas formation in the broth. No growth should occur on the agar plate.

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

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## Material Citation

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If use of this material results in a scientific publication, please cite the material in the following manner: *Clostridium estertheticum* subsp. *laramiense* (Kalchayanand et al.) Spring et al. (ATCC 51254)

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## **References**

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

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## **Disclaimers**

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Product Sheet

**Revision**

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