Product Information Sheet for NR-403

**Campylobacter jejuni, Strain INP21**

**Catalog No. NR-403**
(Derived from ATCC® BAA-530™)

**For research only. Not for human use.**

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**

- **Bacteria Classification:** Campylobacteraceae, Campylobacter
- **Species:** Campylobacter jejuni
- **Strain:** INP21 (also referred to as RM3148)
- **Serotype:** HS:41
- **Original Source:** Campylobacter jejuni (C. jejuni), strain
  INP21 was originally isolated by Irving Nachamkin and
  Patricia Arzarte in 1997 from a patient with Guillain-Barré
  syndrome at the National Institute of Pediatrics in Mexico
  City, Mexico.1,2
- **Comment:** In 2002, strain INP21 was deposited to the ATCC
  as Penner serotype HS:41.

**C. jejuni** is a Gram-negative, slender, curved, motile rod
commonly found in animal feces. It is a microaerophilic
organism that is very sensitive to environmental stresses.3
**C. jejuni** is among the most frequently identified bacterial
causes of human gastroenteritis in the United States and other
industrialized countries.4 Food poisoning caused by **C. jejuni**
can be largely attributed to the consumption of contaminated
food animal products, especially poultry. In most cases, the
resulting infection can be severely debilitating but is rarely life-
threatening. However, in some cases, **C. jejuni** infections
have been linked to the subsequent development of two
neuropathies, Guillain-Barré syndrome and Miller-Fisher
syndrome4 and to a reactive arthropathy, Reiter syndrome.1,3-6

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in
Brucella broth supplemented with 10% glycerol.

**Packaging/Storage:**
NR-403 was packaged aseptically, in screw-capped plastic
cryovials. The product is provided frozen and should be
stored at -60°C or colder immediately upon arrival. For long-
term storage, the vapor phase of a liquid nitrogen freezer is
recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

- **Media:**
  Brucella broth on Tryptic Soy agar with 5% defibrinated sheep
  blood, or equivalent
- **Incubation:**
  Temperature: 37°C to 42°C
  Atmosphere: Microaerophilic (3 to 5% O2 and 4 to 8% CO2)
- **Propagation:**
  1. Keep vial frozen until ready to use, then thaw.
  2. Transfer the entire thawed aliquot into Brucella broth.
  3. Inoculate a Tryptic Soy agar with 5% defibrinated sheep
     blood slant with the suspension.
  4. Incubate the slant at 37°C to 42°C, under microaerophilic
     conditions, for 4 days.
  5. Harvest the slant with Brucella broth and add to Tryptic
     Soy agar with 5% defibrinated sheep blood kolle.
  6. Incubate an additional day at 37°C to 42°C, under
     microaerophilic conditions.

**Note:** The thawed vial may be plated directly on Tryptic Soy
agar with 5% defibrinated sheep blood and grown at 37°C
to 42°C in a microaerophilic atmosphere. This may require
a longer incubation time than the biphasic culture.

**Citation:**

Acknowledgment for publications should read “The following
reagent was obtained through BEI Resources, NIAID, NIH:
Campylobacter jejuni, Strain INP21, NR-403.”

**Biosafety Level: 2**

Appropriate safety procedures should always be used with this
material. Laboratory safety is discussed in the following
publication: U.S. Department of Health and Human Services,
Public Health Service, Centers for Disease Control and
Prevention, and National Institutes of Health. Biosafety in
Microbiological and Biomedical Laboratories, 5th ed.

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