**Product Information Sheet for NR-10454**

**Rickettsia australis**, Strain JC

**Catalog No. NR-10454**

For research use only. Not for human use.

NR-10454 is contaminated with *Mycoplasma gallisepticum*. Please determine whether or not this product is acceptable for your intended use.

**Contributor:**
ATCC®

**Manufacturer:**
BEI Resources

**Product Description:**

*Bacteria Classification*: *Rickettsiaceae, Rickettsia*

*Species*: *Rickettsia australis*

*Strain*: JC (also known as the Cutlac strain)

*Original Source*: *Rickettsia australis* (*R. australis*), strain JC was isolated in 1954 from a sixteen year old from Mount Tamborine, Queensland, Australia who was admitted to Brisbane Hospital suffering fever, headache and a rash several days after discovering a tick attached to his scalp.1,2 The JC strain is serologically related to the previously isolated PHS strain.3

*Comment*: *R. australis*, strain JC was deposited to the ATCC® by Dr. Gregory A. Dasch while at the Naval Medical Research Center, Bethesda, Maryland, U. S. A.

*R. australis* strains are Gram-negative, intracellular bacteria that belong to the alpha subdivision of *Proteobacteria*. They are members of the spotted fever group of Rickettsiales and are endemic to Australia. *R. australis* strains are the etiologic agents of Queensland tick typhus in humans and also have been isolated from the tick species *Ixodes holocyclus* and *I. tasmani*.4

**Material Provided:**

Each vial contains approximately 1 mL of cell lysate and supernatant from African green monkey kidney cells (Vero; ATCC® CCL-81™) infected with *R. australis*, strain JC.

**Packaging/Storage:**

NR-10454 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 stored at cryo-term storage, the vapor phase of a liquid nitrogen freezer is stored at cryo.

**Growth Conditions:**

*Host*: Vero cells (ATCC® CCL-81™)

*Growth Medium*: Eagle’s Minimum Essential Medium supplemented with 10% fetal bovine serum, 2 mM L-glutamine and 1 mM sodium pyruvate

Infection: Cells should be 80 to 90% confluent (not 100% confluent)

Incubation: 5 to 14 days at 35°C and 5% CO₂

Cytopathic Effect: Cell rounding and some sloughing

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: *Rickettsia australis*, Strain JC, NR-10454.”

**Biosafety Level**: 3


**Disclaimers:**

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