**Rickettsia parkeri**, Strain Maculatum C

Catalog No. NR-10402

For research use only. Not for human use.

Contributor: ATCC®

**Product Description:**
Bacteria Classification: *Rickettsiaceae, Rickettsia*
Species: *Rickettsia parkeri*
Strain: Maculatum C (MacC)
Original Source: *Rickettsia parkeri* (R. parkeri), strain Maculatum C is probably a Gulf Coast tick (*Amblyomma maculatum*) isolate.

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

*R. parkeri* is a member of the spotted fever group of Rickettsiae and is the causative agent of Maculatum disease in guinea pigs. *R. parkeri* is an intracellular Gram-negative pathogen that is now known to be transmitted to a human host via interaction with an infected tick (commonly *Amblyomma maculatum*), but recently *R. parkeri* has been discovered in other species of *Amblyomma*. The tick acts as both a natural reservoir and a vector for disease transmission. The human disease is similar but less severe than the typically described Rocky Mountain spotted fever (caused by *R. rickettsii*) and responds well to treatment with doxycycline.

**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. parkeri*, strain Maculatum C. Please purify prior to initiating work. If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**
NR-10402 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:**
Host: Vero cells (ATCC® CCL-81™)
Growth Medium: Minimum Essential Medium with Earle's salts supplemented with 10% irradiated fetal bovine serum, 2 mM L-glutamine and 1 mM sodium pyruvate
Infection: Cells should be 80 to 90% confluent (not 100% confluent)

Incubation: 6 to 20 days at 35°C and 5% CO₂
Cytopathic Effect: Cell rounding and sloughing

**Citation:**
Acknowledgment for publications should read “The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: *Rickettsia parkeri*, Strain Maculatum C, NR-10402.”

**Biosafety Level:** 3

**Disclaimers:**
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