

# Product Information Sheet for NR-10407

## Rickettsia raoultii, Strain Khabarovsk

## Catalog No. NR-10407

(Derived from ATCC® VR-1596™)

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

We have been unsuccessful in our attempts to purify NR-10407 from contaminating Mycoplasma oracle. Please determine whether or not this product is acceptable for your intended use.

### Contributor:

Professor Pierre-Edouard Fournier, M.D., Ph.D., Directeur, Unité des Rickettsies, Université de la Méditerranée, Falculté de Médecine, Marseille, France

### **Product Description:**

Bacteria Classification: Rickettsiaceae, Rickettsia

Species: Rickettsia raoultii Type Strain: Khabarovsk

Original Source: Rickettsia raoultii (R. raoultii), strain Khabarovsk was isolated from Dermacentor silvarum ticks

collected in 2005 in the Russian Far East.1

Comment: R. raoultii, strain Khabarovsk is genetically identical to strain DnS14 which was amplified and sequenced but never cultivated from ticks. R. raoultii, strain Khabarovsk was deposited to the ATCC® by Professor Pierre-Edouard Fournier, M.D, Ph.D., Directeur, Unité des Rickettsies, Université de la Méditerranée, Falculté de Médecine, Marseille, France in 2007.

R. raoultii are Gram-negative, intracellular bacteria that belong to the alpha subdivision of Proteobacteria. They are a member of the spotted fever group of Rickettsiales and have been isolated from ticks (Dermacentor species) in Europe and Russian.1-4

### **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. raoultii, strain Khabarovsk.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

### Packaging/Storage:

NR-10407 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 longterm 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 32°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 raoultii, Strain Khabarovsk, NR-10407."

### Biosafety Level: 3

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. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

#### Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government make any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

#### Use Restrictions:

This material is distributed for internal research, noncommercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or

**Biodefense and Emerging Infections Research Resources Repository** P.O. Box 4137

800-359-7370

Fax: 703-365-2898



# **Product Information Sheet for NR-10407**

its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

#### References:

- Mediannikov, O., et al. "Rickettsia raoultii sp. nov., a Spotted Fever Group Rickettsia Associated with Dermacentor Ticks in Europe and Russia." Int. J. Syst. Evol. Microbiol. 58 (2008): 1635-1639. PubMed: 18599708.
- Sarih, M., et al. "Spotted Fever Group Rickettsiae in Ticks, Morocco." <u>Emerg. Infect. Dis.</u> 14 (2008): 1067-1073. PubMed: 18598627.
- Márquez, F. J. "Spotted Fever Group in Ticks from Southeastern Spain Natural Parks." <u>Exp. Appl. Acarol.</u> 45 (2008): 185-194. PubMed: 18677442.
- Boldiš, V., et al. "Rickettsial Agents in Slovakian Ticks (Acarina, Ixodidae) and Their Ability to Grow in Vero and L929 Cell Lines." <u>Ann. N. Y. Acad. Sci.</u> 1149 (2008): 281-285. PubMed: 19120229.

ATCC® is a trademark of the American Type Culture Collection.

800-359-7370

Fax: 703-365-2898

E-mail: contact@beiresources.org