



Chlamydia muridarum Everett et al.

VR-123™

Description

Chlamydia muridarum strain Nigg II is propagated in McCoy [McCoy B] cells (ATCC CRL-1696). This bacterial strain was isolated from normal mice and has applications in respiratory disease research.

Strain designation: Mouse Pneumonitis strain Nigg II

Deposited As: *Chlamydia trachomatis* (Busacca) Rake

Type strain: Yes

Storage Conditions

Product format: Frozen

Storage conditions: -70°C or colder

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.

BSL 2

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 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.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: McCoy [McCoy B] (ATCC CRL-1696)

Effects: CPE; cytoplasmic inclusions

Temperature: 37°C

Recommendations for infection: 48 hours at 37°C in McCoy cells (ATCC CRL-1696).

Add glassbeads and vortex preparation to disrupt cells. Infect monolayer with disrupted material. Centrifuge at 3000 x rpm (750 x g) for 1 hour. Feed with fresh growth medium containing 1-2 µg/mL cycloheximide. Incubate at 37°C for 48 hours.

Incubation: 48 hours

Handling Procedures

Mycoplasma contamination: Detected

Notes

Although this agent is not known to be pathogenic for humans, it should be handled with care. This holding has tested positive for Mycoplasma contamination. Mice receiving 1:100 dilution i.n. of infected y.s. occasionally develop pneumonia and die. The Nigg II strain was first deposited by F.B. Gordon as yolk-sac adapted material. It was subsequently redeposited as tissue culture adapted material by J. Schachter. Next-generation sequencing (NGS) at ATCC on the McCoy cell line (ATCC CRL-1696) used as the host has shown the presence of Mus Musculus mobilized endogenous polytropic provirus and Murine leukemia virus.

Key Abbreviations: i.n., Intranasal; M, Mouse; TC, Tissue culture; TCID₅₀, Median tissue culture infective dose; y.s., Yolk sac; CE, Chicken embryo

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Chlamydia muridarum* Everett et al. (ATCC VR-123)

References

References and other information relating to this material are available at www.atcc.org.

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