

***Mycobacterium tuberculosis*, Strain Erdman K01 (TMC 107)**

Catalog No. NR-15404

For research use only. Not for human use.

Contributor:

NIH - TB Vaccine Testing and Research Materials Contract

Product Description:

Bacteria Classification: *Mycobacteriaceae*; *Mycobacterium*

Species: *Mycobacterium tuberculosis*

Strain: Erdman K01 (also referred to as Erdman and TMC 107)

Original Source: *Mycobacterium tuberculosis* (*M. tuberculosis*), strain Erdman K01 was isolated from human sputum and deposited to the Trudeau Mycobacterium Culture Collection (TMC).

Comment: *M. tuberculosis*, strain Erdman K01 is known to be a highly virulent strain.¹ Strain Erdman K01 was deposited to the Biodefense and Emerging Infections Research Repository by Dr. A. Izzo, Department of Microbiology and Immunology at Colorado State University as part of the TB Vaccine Testing and Research Materials Contract.

M. tuberculosis is a Gram-positive, rod-shaped aerobic bacterium. It is the causative agent of tuberculosis and is responsible for more morbidity in humans than any other bacterial disease.²

Material Provided:

Each vial contains approximately 1.2 mL of bacterial culture in Proskauer and Beck Broth supplemented with 0.05% Tween80.

Note: NR-15404 is intended for use in animal studies. Once the contents of the vial have been used, the vial and any remaining product should be discarded. NR-15404 is not intended for propagation.

Packaging/Storage:

NR-15404 was packaged aseptically in glass vials. The product is provided frozen and should be stored at -80°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.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: *Mycobacterium tuberculosis*, Strain Erdman K01 (TMC 107), NR-15404."

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/bmb15/bmb15toc.htm.

Disclaimers:

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References:

1. Palanisamy, G. S., et al. "Disseminated Disease Severity as a Measure of Virulence of *Mycobacterium tuberculosis* in the Guinea Pig Model." Tuberculosis (Edinb.) 88 (2008): 295-306. PubMed: 18321783.
2. Ducati, R. G., et al. "The Resumption of Consumption – A Review on Tuberculosis." Mem. Inst. Oswaldo Cruz. 101 (2006): 697–714. PubMed: 17160276.
3. Cole, S. T., et al. "Deciphering the Biology of *Mycobacterium tuberculosis* from the Complete Genome Sequence." Nature 393 (1998): 537-544. PubMed: 9634230. Erratum in: Nature 396 (1998): 190-198.

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