

Yersinia pestis, Strain A1122

Catalog No. NR-15

(Derived from ATCC® 11953™)

Product Description:

Yersinia pestis (*Y. pestis*), strain A1122 was isolated from a California ground squirrel (*Spermophilus beecheyi*) in California, USA, 1939. NR-15 was produced by inoculation of BEI Resources seed lot 3776779 into Tryptic Soy broth and grown for 2 days at 37°C in an aerobic atmosphere with 5% CO₂. Broth inoculum was added to Tryptic Soy agar with 5% sheep blood kolles, which were grown for 2 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70053520

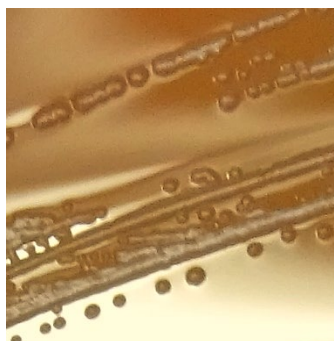
Manufacturing Date: 17JUN2022

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility BBL™ Motility Test Medium w/TTC Indicator for 1 day at 37°C with 5% CO ₂ in an aerobic atmosphere Biochemical Analyses Analytical profile index (API 20 E®) Oxidase	Gram-negative rods Report results Report results Report results Report results	Gram-negative rods Circular, raised, undulate, opaque and gray (Figure 1) Non-motile <i>Y. pestis</i> (99.4%) Negative
Genotypic Analysis Digital DNA-DNA hybridization (dDDH) ¹	Consistent with <i>Y. pestis</i>	Consistent with <i>Y. pestis</i> ²
Purity 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability	Growth	Growth

¹Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." *Stand. Genomic Sci.* 2 (2010): 117-134. PubMed: 21304684.

²Also consistent with other *Yersinia* species [Bercovier, H., et al. "Intra- and Interspecies Relatedness of *Yersinia pestis* by DNA Hybridization and its Relationship to *Yersinia pseudotuberculosis*." *Current Microbiology* 4 (1980): 225-229].

Figure 1: Colony Morphology



/Sonia Bjorum Brower/

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05 JUL 2023

Technical Manager or designee, ATCC Federal Solutions

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