Certificate of Analysis for NR-50123

Serratia sp., Strain Ag2

Catalog No. NR-50123

Product Description:

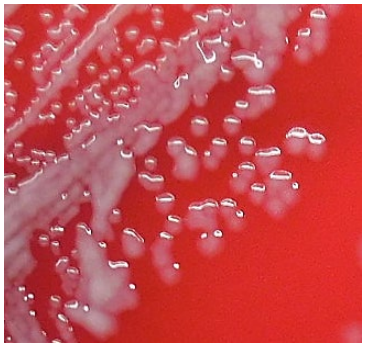
Serratia sp., strain Ag2 was isolated in 2014 from the midgut of *Anopheles gambiae*, strain G3, a lab strain used for malaria research, in Las Cruces, New Mexico, USA. NR-50123 aligns favorably with the depositors' sequence; however, this organism did not align favorably with other members of the *Serratia* genus. Digital DNA-DNA hybridization (dDDH) analysis of the sequence was also inconclusive. NR-50123 was produced by inoculation of BEI Resources seed lot 64360362 into Brain Heart Infusion and grown for 1 day at 30°C in an aerobic atmosphere. The material from the initial growth was passaged in Tryptic Soy with 5% defibrinated sheep blood agar kolles for 1 day at 30°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70067435 **Manufacturing Date: 27MAR2024**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and white (Figure 1)
Motility (wet mount)	Motile	Motile
VITEK® 2 (GN card)	*Serratia* sp. (≥ 89%)	*Serratia odorifera* (93%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 710 base pairs)	≥ 99% sequence identity to *Serratia* sp., strain Ag2 (Genbank: JQEJ01000071.1).	99.5% sequence identity to *Serratia* sp., strain Ag2 (Genbank: JQEJ01000071.1)[1]
Purity (post-freeze) 7 days at 30°C in an aerobic atmosphere on Tryptic Soy with 5% sheep blood agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

[1]Although NR-50123 aligns favorably with the depositors' sequence, this organism did not align favorably with other members of the *Serratia* genus. Digital DNA-DNA hybridization (dDDH) analysis of the sequence was also inconclusive.

Figure 1: Colony Morphology



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/Sonia Bjorum Brower/
Sonia Bjorum Brower 09 SEP 2025
Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

Support Provided by NIAID

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