

Certificate of Analysis for NR-22067

Salmonella enterica subsp. enterica, Strain S10801 (Serovar Typhimurium)

Catalog No. NR-22067

Product Description: Salmonella enterica (S. enterica) subsp. enterica serovar Typhimurium, strain S10801 was isolated in 2005 from a mesenteric lymph node of a calf with sepsis in Washington, USA.

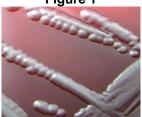
Lot¹: 61302041 Manufacturing Date: 25OCT2012

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Report results	Gram-negative rods
Colony morphology ²	Report results	Circular, convex, entire, smooth, glistening and gray (Figure 1)
Analytical profile index (API [®] 20 E) ³	Consistent with Salmonella spp.	Consistent with Salmonella spp.
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	Consistent with S. enterica	Consistent with <i>S. enterica</i> subsp. enterica
Riboprinter [®] Microbial Characterization System	Consistent with S. enterica	Consistent with <i>S. enterica</i> subsp. enterica ⁴
Serogroup Analysis	Report results	Serogroup O ⁵
Viability (post-freeze) ²	Growth	Growth

¹NR-22067 was produced by inoculation of the deposited material into Tryptic Soy Broth and grown 24 hours in an aerobic atmosphere at 37°C. Broth inoculum was added to Kolles which was grown 24 hours at 37°C and aerobic atmosphere to produce this lot.

⁵Serogroup O contains serotype Typhimurium in addition to other serotypes.

Figure 1



Date: 25 FEB 2013 Signature:

Title: Technical Manager, BEI Authentication or designee

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²24 hours at 37°C in an aerobic atmosphere on Tryptic Soy Agar with 5% defibrinated sheep blood

³Additional serological tests are required to determine Salmonella species using API[®] 20 E.

⁴NR-22067 tested most similar to the *S. enterica* serotype 4,5,12:i:-, which appears to be antigenically similar and genetically closely related to *Salmonella* serotype Typhimurium [see, Soyer, Y., et al. "*Salmonella enterica* Serotype 4,5,12:i:-, an Emerging *Salmonella* Serotype that Represents Multiple Distinct Clones." J. Clin. Microbiol. 47 (2009): 3546-3556. PubMed: 19741087].