



Draft Genome Sequence of *Salmonella bongori* N19-781, a Clinical Strain from a Patient with Diarrhea

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ABSTRACT The genome of *Salmonella bongori* N19-781, a strain isolated from a patient with diarrhea, was sequenced. It consists of a 4.5-Mbp chromosome.

Salmonella strain N19-781 was isolated from a stool sample (using selenite enrichment and cultivation on Hektoen agar and Elite ChromAgar; bioMérieux, Marcy-l'Étoile, France) of a 10-month-old symptomatic female patient residing in the canton of Geneva (Switzerland). According to the White-Kauffmann-Le Minor scheme (1), the strain was serotyped as *Salmonella bongori* 48:z₃₅:-. *S. bongori* is mostly associated with cold-blooded animals (2). Human infections with *S. bongori* have hardly been reported, although persistent endemicity of *S. bongori*, with multiple human cases, has been described in southern Italy (3).

The strain N19-781 was grown overnight (o/n) on sheep blood agar at 37°C prior to genomic DNA isolation using a DNA blood and tissue kit (Qiagen, Hombrechtikon, Switzerland). The DNA was prepared using a Nextera DNA Flex sample preparation kit (Illumina, San Diego, CA, USA), which produces transposome-based libraries that were sequenced on a MiniSeq sequencer (Illumina).

The sequencing output was 1,014,820 150-bp paired-end reads. Reads were checked for quality using the software package FastQC 0.11.7 (Babraham Bioinformatics, Cambridge, UK). Both Illumina read files passed the standard quality checks of FastQC, with the exception of the module "Per Base Sequence Content," which returned a failure. Such failure is common for transposome-based libraries and was therefore ignored (<https://www.bioinformatics.babraham.ac.uk/projects/fastqc/Help/3%20Analysis%20Modules/>). Reads were assembled using the SPAdes 3.0-based software Shovill 1.0.4 (4, 5) using default settings. The assembly was filtered, retaining contigs of >500 bp. The draft genome of *S. bongori* N19-781 consists of 4,519,152 bp divided over 50 contigs, with an *N*₅₀ length of 314.9 kbp and a largest contig size of 602,874 kbp. The GC content of the genome is 51.24 mol%. The genome harbors 4,351 genes, including 73 tRNAs, as predicted by the NCBI Prokaryotic Genome Annotation Pipeline (6). The classification of strain N19-781 as *S. bongori* was confirmed by KmerFinder 3.1 (7) using the genome sequence as input and by >98.9% average nucleotide identity to other *S. bongori* genomes (data not shown).

The genome sequence of this clinical *Salmonella bongori* strain might provide information about virulence factors in this species. It is one of the few available genomes of clinical strains of this *Salmonella* species.

Data availability. This whole-genome shotgun project has been deposited at DDBJ/ENA/GenBank under the accession number [VCNN000000000](https://www.ncbi.nlm.nih.gov/assembly/GCA000000000/). The version described in this paper is the first version, VCNN01000000. Reads were deposited in the Sequence Read Archive (SRA) under study number [PRJNA545245](https://www.ncbi.nlm.nih.gov/sra/PRJNA545245), experiment number [SRX5937612](https://www.ncbi.nlm.nih.gov/sra/SRX5937612), and run number [SRR9164837](https://www.ncbi.nlm.nih.gov/sra/SRR9164837).

Citation Stevens MJA, Cernela N, Müller A, Stephan R, Bloemberg G. 2019. Draft genome sequence of *Salmonella bongori* N19-781, a clinical strain from a patient with diarrhea. Microbiol Resour Announc 8:e00691-19. <https://doi.org/10.1128/MRA.00691-19>.

Editor Frank J. Stewart, Georgia Institute of Technology

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Received 7 June 2019

Accepted 25 June 2019

Published 18 July 2019

ACKNOWLEDGMENT

This work was partly supported by the Swiss Federal Office of Public Health, Communicable Diseases Division.

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