

# Draft Genome Sequences of Four *Bacillus thermoamylovorans* Strains Isolated from Milk and Acacia Gum, a Food Ingredient

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**The thermophilic bacterium *Bacillus thermoamylovorans* produces highly heat-resistant spores that can contaminate food products, leading to their spoilage. Here, we present the whole-genome sequences of four *B. thermoamylovorans* strains, isolated from milk and acacia gum.**

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*Bacillus thermoamylovorans* is a facultative thermophilic, facultatively anaerobic, amylolytic bacterium that was isolated from palm wine and characterized first in 1995 (1). The species is being studied because of its ability to produce lactic acid (2) and a thermostable lipase (3) as well as to degrade sewage sludge (4) and plant biomass (5). The bacterium was also found to contaminate gelatin extracts (6) and has been isolated on dairy farms (7, 8). *B. thermoamylovorans* forms spores (7) that are highly heat resistant; these can survive preservation treatments that are commonly used by the food industry, and upon germination and outgrowth, this can lead to food spoilage (8, 9).

Four strains of *B. thermoamylovorans*, isolated from food-stuffs in which spoilage occurred, were subjected to next generation whole-genome sequencing. The isolates were cultured overnight in brain heart infusion (BHI) broth (Difco) supplemented with vitamin B<sub>12</sub> at 50°C with shaking (220 rpm). After being harvested, the cell pellets were resuspended in SET buffer (75 mM NaCl, 25 mM EDTA, 20 mM Tris-HCl, pH 7.5). The cell suspensions were treated with lysozyme (2 mg/ml) and RNase (0.4 mg/ml) at 37°C for 30 min. Subsequently, the samples were incubated with proteinase K (0.5 mg/ml) and SDS (final concentration, 1%) at 55°C for 60 min. Genomic DNA was isolated from lysed cells by phenol-chloroform extraction and precipitation with isopropanol and sodium acetate (300 mM). Precipitated DNA was dissolved in TE buffer.

TABLE 1 *B. thermoamylovorans* sequenced strains and their sources

Strain no. <sup>a</sup>	Source	Accession no.
B4064	Acacia gum	JXLR00000000
B4065	Acacia gum	JXLS00000000
B4166	Milk	JXLT00000000
B4167	Milk	JXLU00000000

<sup>a</sup> Numbers refer to strain collections at NIZO food research and University of Groningen (Molecular Genetics).

**Nucleotide sequence accession numbers.** The genome sequences of the four *Bacillus thermoamylovorans* strains have been deposited as whole-genome shotgun projects at DDBJ/EMBL/GenBank under the accession numbers listed in Table 1.

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