Species *Neosphaerochaeta fermentans*[Ts]

Etymology
[fer.men'tans] **L. fem. part. adj.** *fermentans*, fermenting, referring to the source of genome from a sulfoquinovose fermenting bacterium

Nomenclatural type
NCBI Assembly: GCA_053840885.1 [Ts]

Description
The designated DNA sequence is MAG SQrumen3 recovered from cow rumen. This species was enriched in anoxic incubations of rumen fluid with sulfoquinovose. Genome-centric metatranscriptomic analysis suggests sulfoquinovose is fermented to isethionate via the sulfo-transketolase pathway. The genome additionally encodes two different sulfoquinovosidases (YihQ and SqgA).

Classification
Bacteria » *Spirochaetota* » *Spirochaetia* » *Spirochaetales* » *Sphaerochaetaceae* » *Neosphaerochaeta* » *Neosphaerochaeta fermentans*[Ts]

References
Effective publication: Krasenbrink et al., 2026 [1]

Registry URL
https://seqco.de/i:54963

References

1. Krasenbrink et al. (2026). Sulfoquinovose degradation by cow rumen microbiota. *The ISME Journal*. DOI:10.1093/ismejo/wrag069