

Register list for 4 new names including *Caproiciproducens ruminis* sp. nov.

Submitted by Loy, Alexander

Genus *Neosphaerochaeta*

Etymology

[Ne.o.sphae.ro.chae'ta] **Gr. masc. adj.** *neos*, new; **N.L. fem. n.** *Sphaerochaeta*, a bacterial genus; **N.L. fem. n.** *Neosphaerochaeta*, a new genus related to *Sphaerochaeta*

Nomenclatural type

Species *Neosphaerochaeta fermentans*^{Ts}

Description

The nomenclatural type of this genus was derived from anoxic incubations of cow rumen fluid with sulfoquinovose.

Classification

Bacteria » *Spirochaetota* » *Spirochaetia* » *Spirochaetales* » *Sphaerochaetaceae* » *Neosphaerochaeta*

References

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

Registry URL

<https://seqco.de/i:54964>

Species *Caproiciproducens intestini*

Etymology

[in.tes.ti'ni] **L. gen. neut. n.** *intestini*, of the gut, referring to the origin of the bacterium

Nomenclatural type

[NCBI Assembly: GCA_053840945.1](#)^{Ts}

Description

The designated DNA sequence is MAG SQRumen2 recovered from cow rumen. This species was enriched in anoxic incubations of rumen fluid with sulfoquinovose. Genome-centric metatranscriptomic analysis suggests that sulfoquinovose is fermented via a bifurcated sulfo-transketolase/transaldolase pathway to isethionate and an unidentified sulfonate product.

Classification

Bacteria » *Bacillota* » *Clostridia* » *Eubacteriales* » *Ocillospiraceae* » *Caproiciproducens* » *Caproiciproducens intestini*

References

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

Registry URL

<https://seqco.de/i:54962>

Species *Caproiciproducens ruminis*

Etymology

[ru.mi'nis] **L. gen. neut. n.** *ruminis*, of the rumen, the source of the bacterium

Nomenclatural type

[NCBI Assembly: GCF_053840905.1](#) ^{Ts}

Description

The designated DNA sequence is MAG SQrumen1 recovered from cow rumen. This species was enriched in anoxic incubations of rumen fluid with sulfoquinovose. Genome-centric metatranscriptomic analysis suggests that sulfoquinovose is fermented via a bifurcated sulfo-transketolase/transaldolase pathway to isethionate and an unidentified sulfonate product.

Classification

Bacteria » *Bacillota* » *Clostridia* » *Eubacteriales* » *Ocillospiraceae* » *Caproiciproducens* » *Caproiciproducens ruminis*

References

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

Registry URL

<https://seqco.de/i:54961>

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 SqqA).

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

Register List Certificate of Validation

On behalf of the *Committee on the Systematics of Prokaryotes Described from Sequence Data* (SeqCode Committee), we hereby certify that the Register List **seqco.de/r:zn4ya-g1** submitted by **Loy, Alexander** and including 4 new names has been successfully validated.

Date of Priority: 2026-04-03 03:22 UTC

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