

Genus *Liberimonas*

Etymology

[Li.be.ri.mo'nas] L. masc. adj. *liberus*, free; L. fem. n. *monas*, unit, monad; N.L. fem. n. *Liberimonas*, a free monad

Nomenclatural type

Species *Liberimonas magnetica*^{Ts}

Description

Potentially has a fermentation-based metabolism. Has the capacity to produce lactate and acetate as fermentation products. Has the potential for autotrophic growth with hydrogen and carbon dioxide via the Wood-Ljungdahl pathway. Predicted unable to assimilate nitrite or nitrate and unable to fix nitrogen. Sulfur is likely assimilated through sulfate reduction. Supposedly capable of twitching motility.

Classification

Bacteria » *Elusimicrobiota* » *Endomicrobiia* » *Endomicrobiales* » "Liberimonadaceae" » *Liberimonas*

References

Effective publication: Uzun et al., 2023 [1]

Registry URL

<https://seqco.de/i:45213>

References

1. Uzun et al. (2023). Recovery and genome reconstruction of novel magnetotactic *Elusimicrobiota* from bog soil. *The ISME Journal*. DOI:10.1038/s41396-022-01339-z