

Order *Lucifugimonadales*

Etymology

[Lu.ci.fu.gi.mo.na.da'les] **N.L. fem. n.** *Lucifugimonas*, referring to the type genus *Lucifugimonas*; *-ales*, ending to denote an order; **N.L. fem. pl. n.** *Lucifugimonadales*, the *Lucifugimonas* order

Nomenclatural type

Genus *Lucifugimonas*

Description

Aerobic, oligotrophic, and chemoheterotrophic. Gram-negative with a monoderm envelope. Cells are non-motile and dimorphic with short rods of $\sim 0.8 \times 0.4 \mu\text{m}$ and cocci of $\sim 0.5 \mu\text{m}$ diameter. Do not form colonies on solid agar plates. Grows very slowly and reaches stationary phase at ~ 50 days of growth in artificial seawater medium. Light inhibits cellular growth.

Classification

Bacteria » *Chloroflexota* » *Dehalococcoidia* » *Lucifugimonadales*

References

Effective publication: Lim et al., 2023 [1]
Assigned taxonomically: Lim et al., 2023 [1]

Registry URL

<https://seqco.de/i:44172>

References

1. Lim et al. (2023). Cultivation of marine bacteria of the SAR202 clade. *Nature Communications*. [DOI:10.1038/s41467-023-40726-8](https://doi.org/10.1038/s41467-023-40726-8)