

## Order *Lucifugimonadales*

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### 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  $\sim 50$  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)