

## Genus *Patescibacterium*

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### Etymology

[Pa.tes.ci.bac.te'ri.um] L. verb. *patesco*, to become visible, bare; N.L. neut. n. *bacterium*, rod; N.L. neut. n. *Patescibacterium*, bare bacterium

### Nomenclatural type

Species *Patescibacterium danicum*<sup>Ts</sup>

### Description

The description of the genus is based on the single species which is characterized by a small genome size below 1 Mbp and inferred to lack nucleotide and amino acid synthesis, which is compensated by encoded DNA uptake and peptide cleaving abilities. The lack of a pentose phosphate pathway (PPP) and a complete tricarboxylic acid (TCA) cycle leaves anaerobic glycolysis, albeit without the key enzyme phosphofructokinase-1 (PFK-1), as a means of energy conservation.

The type species of the genus is *Patescibacterium danicum*, obtained from the Mariagerfjord WWTP in Denmark.

### Classification

*Bacteria* » *Patescibacteriota* » *Patescibacteriia* » *Patescibacteriales* » *Patescibacteriaceae* » *Patescibacterium*

### References

Effective publication: Dutkiewicz et al., 2024 [1]

Assigned taxonomically: Dutkiewicz et al., 2024 [1]

### Registry URL

<https://seqco.de/i:48242>

## References

1. Dutkiewicz et al. (2024). Proposal of *Patescibacterium danicum* gen. Nov., sp. nov. in the ubiquitous ultrasmall bacterial phylum *Patescibacteriota* phyl. Nov. *ISME Communications*. DOI:10.1093/ismeco/ycae147