

Species *Geminocystis urbisnovae*

Etymology

[ur.bis.no'vae] L. **fem. n.** *urbis*, a city; L. **adj.** *novus*, new; **N.L.** *urbisnovae*, after Latinized name of Novgorod city (Nov'go.rod; literally, a new city) in north-west Russia and adjoining administrative region from which the type strain was isolated

Nomenclatural type

Strain: CALU 1759

Description

[Polyakova et al., 2023](#): Dark green, light green, or olive green cocci 2.7 ± 0.3 – 3.6 ± 0.2 μm long (min–max, 2.1–4.5 μm) and 2.4 ± 0.3 – 3.2 ± 0.2 μm wide (min–max, 1.5–3.7 μm). Binary fission in one plane (preferentially), or in two perpendicular planes (occasionally); single, in pairs, or in tetrads. Sheath and capsule absent, mucilage produced. Parallel rows of thylakoids stretched from cell pole to pole. Loose cell precipitate in unstirred culture; homogeneous growth in stirred culture. Colonies on 1.2% agar round, with slightly waveform edge and smooth shiny surface, moderately granular, bordered with slime. Freshwater, stenohaline: growth inhibited at $\geq 0.3\%$ NaCl addition to modified BG-11 medium (1/5 nitrate amount; 0.05% total salt). PE produced; complementary CA2. Pairwise identity of 16S rRNA gene sequences with published strains of the genus *Geminocystis* 94.5–97.9%; species-specific nucleotide sequence and folding of D1–D1' and B box domains of the 16S–23S ITS region.

Classification

Bacteria » *Cyanobacteriota* » *Cyanophyceae* » *Chroococcales* » *Geminocystaceae* » *Geminocystis* » *Geminocystis urbisnovae*

References

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

Registry URL

<https://seqco.de/i:48668>

References

1. Polyakova et al. (2023). *Geminocystis urbisnovae* sp. nov. (Chroococcales, Cyanobacteria): polyphasic description complemented with a survey of the family *Geminocystaceae*. *Algae*. DOI:10.4490/algae.2023.38.6.12