

## Species *Geminocystis urbisnovae*

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### 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  $2.7 \pm 0.3$ – $3.6 \pm 0.2$   $\mu\text{m}$  long (min–max, 2.1–4.5  $\mu\text{m}$ ) and  $2.4 \pm 0.3$ – $3.2 \pm 0.2$   $\mu\text{m}$  wide (min–max, 1.5–3.7  $\mu\text{m}$ ). 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