

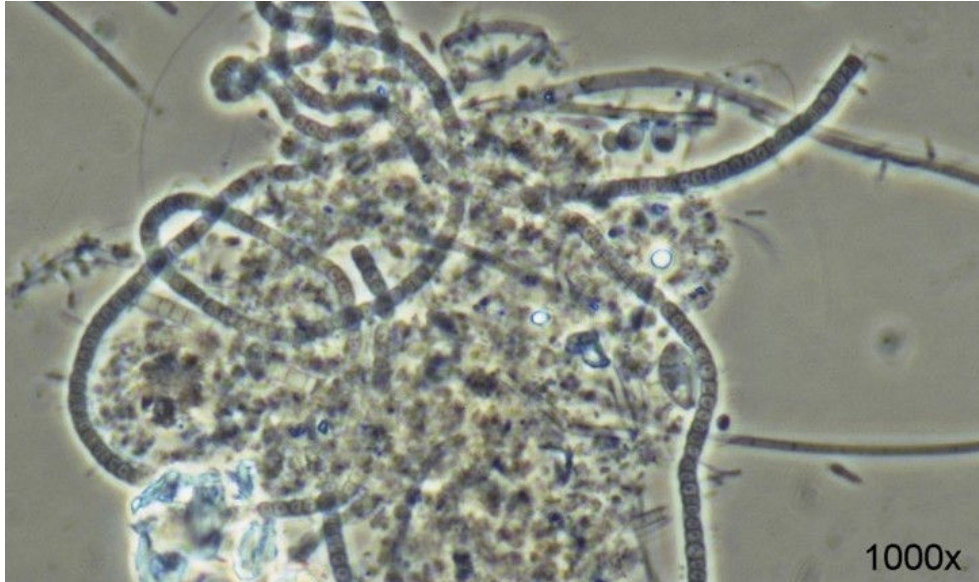
"*Candidatus Monilibacter batavus*"

Resembles: several other *Alphaproteobacteria* and *N. limicola* I and III

Probes: class specific: ALF-968 [7]; species specific: MC2-645 [8]

Frequency occurrence (200 samples; 175 WTPs):

- observed with a FI \geq 1 in 14 samples
- observed with a FI \geq 3 in 1 sample



Characteristics

- bent/curled filaments, occasionally tangled;
- free in the liquid phase as well as inside the flocs;
- filament length variable, but usually $> 200 \mu\text{m}$;
- filaments not branched;
- not motile;
- cell diameter usually ca. $1.3 \mu\text{m}$, but occasionally, when the cells are filled with stored compounds, almost $2.0 \mu\text{m}$;
- no sheath, but sometimes surrounded by a layer of slime;
- rarely attached growth;
- septa and constrictions clearly visible;
- cell shape variable: almost spherical, discoid or more discus shaped cells;
- no sulphur storage, but other inclusions might be present inside the cells;;
- Gram negative;
- usually Neisser negative.

See "*Candidatus Alysiomicrobium bavaricum*" for remarks, physiology, occurrence in activated sludge, control options and references.

Slide show images

- 1-7: common morphology: spherical cells with a diameter of ca. $1.3 \mu\text{m}$
- 8-11: different morphology (in one sample only): discoid cells filled with stored compounds; diameter ca. $1.8 \mu\text{m}$
- 12: FISH image with probe MC2-645