

Nos. 45.

Prepared from TNS-AL-56498 in TNS.

This culture strain was prepared from TNS-AL-56464 in TNS.

Lake Biwa, Shiga Pref. Coll. A. Tuji 19/iii/08.

Gomphoneis okunoi Tuji, Bull. Natn. Sci. Mus. Tokyo ser. B. 31: 92-95. pl. 12. f. 1-10. pl. 13. f. 1-4. pl. 14. f. 1-5. 2005.

Synonym: *Gomphonema tetrastigmatum* sensu Okuno, Diat. Elektr. Mikr. 9: 36-37. 1974.

Gomphoneis tetrastigmata sensu T.Ohtsuka, Diat. 18: 32. f. 77-80. 2002.

Holotype: A slide numbered TNS-AL-54241sc in TNS.

Ecology: Commonly found in less polluted rivers and lakes (xenosaprobic to oligosaprobic in saprobic level) and regarded as saproxenous taxon and prefers low temperatures (Tuji 2005). pH-circumneutral.

Species from oligotrophic water bodies are very difficult to make culture strains. These species require much silica and carbon dioxides. The culture of this species is also difficult, and growth rate is very low.

