Abstract
A clone of *Nitzschia levidensis* grown in petri dishes formed belt-shaped chains in culture. The valve-half carrying the raphe is concave, and the other half is convex in the external view. On cells in a chain, a half-copula bearing rough slits is attached to the margin of the rapheless valve-half. To make the compact chains, the corner carrying the raphe of a valve is inserted to the space between the copula and the convex valve-half of the neighboring valve. The shape of valves and the raphe of this diatom seen by SEM differs evidently from *Nitzschia tryblionella*.

Key index words: benthic diatom, chain forming, *Nitzschia levidensis, Nitzschia tryblionella*, ultra-structure, half-copula.