Rhizoclonium tortuosum (Dillwyn) Kützing

Techniques needed and plant shape







Phylum: Chlorophyta; Order: Cladophorales; Family: Cladophoraceae

MICRO



Classification

*Descriptive name Features green tidal-flat mats

plants consist of thin mats or loose, fine entangled threads found in calm water in the intertidal on sand or mud

Special requirements



View threads microscopically to find

- 1. threads green, unbranched
- 2. chloroplasts, *net-like* with several to many pyrenoids
- 3. cells *oblong*, $25-40\mu m$ wide, L/B dimensions = 2-3

Occurrences Europe, N America and New Zealand. In southern Australia, from Kangaroo I.

and St Kilda, S Australia

Usual Habitat in the intertidal of sheltered waters or tangled in the stems of samphires

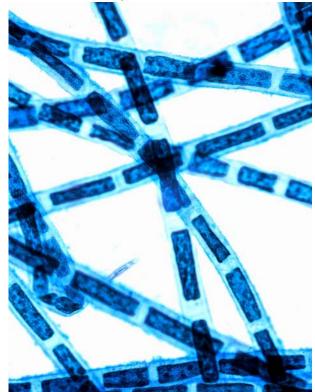
Similar Species other thread-like (filamentous) algae such as *Ulothrix* (but that genus has parietal

chloroplasts — ones that partly encircle the inside of cell walls); and *Cladophora* (but that has branched filaments). Similar to *Rhizoclonium implexum*, but *Rh*.

tortuosum has wider filaments

Description in the Benthic Flora Part I, pages 168-169

Details of Anatomy





Different magnifications of Rhizoclonium tortuosum (A52994 slide 7445) stained blue and viewed microscopically to show

- 1. tangled, unbranched threads (rarely with short rhizoids)
- 2. cell detail showing the net-like chloroplast and cell dimensions of L/B = 2-3

^{*} Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, October 2003





Two magnifications of *Rhizoclonium tortuosum* (Dillwyn) Kützing, (A54729), from Thomson Creek, St Kilda, S Australia amongst seagrass detritus