

Ahnfeltiopsis humilis
(Lindauer) Lewis & Womersley

Techniques needed and shape



MACRO PLANT



Classification

Phylum: Rhodophyta; Order: Gigartinales; Family: Phylloporaceae
gristly flat threads

***Descriptive name**

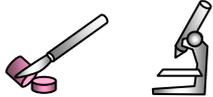
Features

1. dark red-brown 10-40mm tall, gristly, forked, *flat-branched*
 2. branches *compressed*, 1.0-1.5mm wide, tips rounded, edges smooth or with numerous outgrowths probably due to grazing
 3. mature female structures (cystocarps) form minute swellings in the upper branches
- New Zealand. In Australia, from Robe S Australia to W Victoria on rock in the low intertidal or in shaded reef pools

Occurrences

Usual Habitat

Special requirements



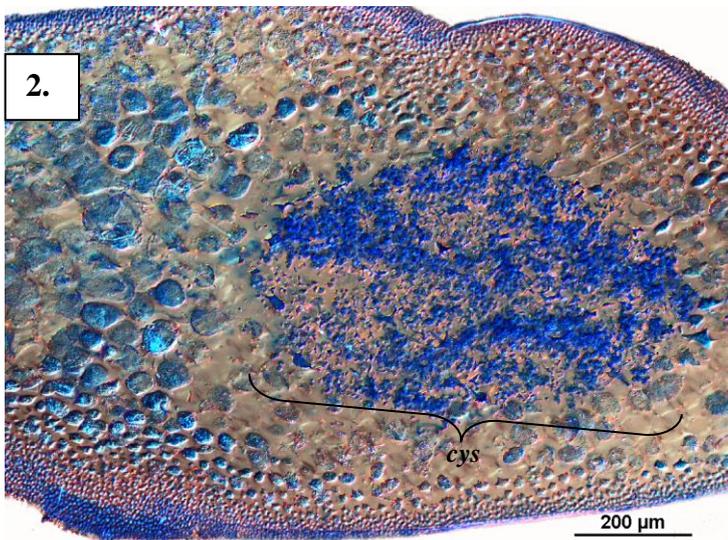
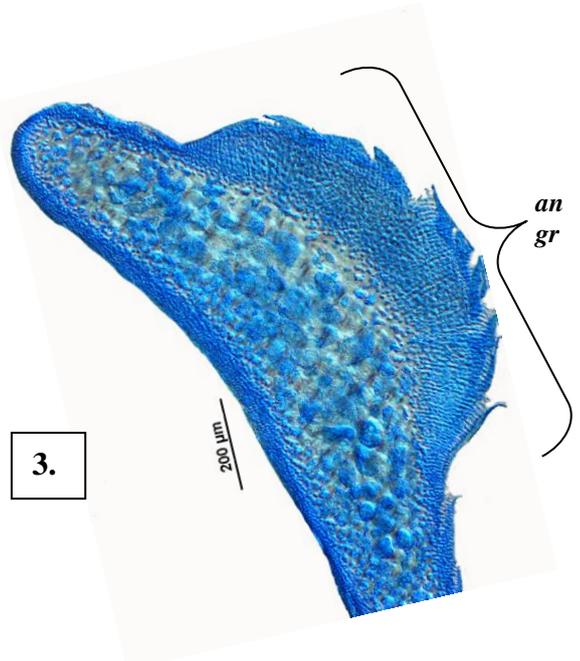
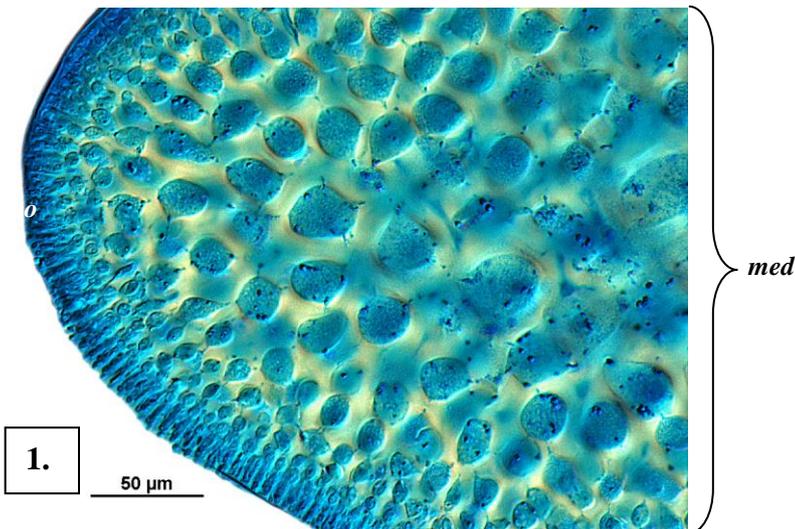
1. cut a cross section to find a core (medulla) of *large, egg-shaped* cells with numerous cross-connections and outer layers (cortex) of *chains* of 2-3 *small* outward-facing cells
 2. if possible cut a cross section through a cystocarp to find numerous separated cells (gonimoblast) and clumps of carposporangia in the medulla; opening (ostiole) *absent*
 3. anomalous warty outgrowths of long chains of cortex cells may also be found
- Ahnfeltiopsis. fastigiata* but that species has narrower, more cylindrical branches

Similar Species

Description in the Benthic Flora

Part IIIA, pages 266, 267

Details of Anatomy



Cross sections of *Ahnfeltiopsis humilis* stained blue and viewed microscopically, showing:

1. edge of flattened branch: egg-shaped core cells (medulla, *med*) with several side connections and short chains of small outer cells (cortex, *co*) (A61516 slide 12722)
2. a mature female structure (cystocarp, *cys*) . in the core (medulla) opening absent (A61516 slide 12721)
3. an anomalous warty outgrowth (*an gr*) of expanded cortical cells (A61516 slide 12719)

* Descriptive names are inventions to aid identification, and are not commonly used
"Algae Revealed" R N Baldock, S Australian State Herbarium, January 2011



4, 5. Two magnifications of *Ahnfeltiopsis humilis* (Lindauer) Lewis & Womersley (A21294) from the lower intertidal at Robe S Australia, with proliferations (arrowed) due to grazing near the tips

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