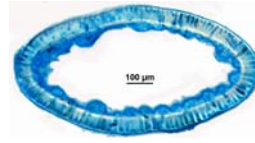


SOUTHERN AUSTRALIAN SPECIES OF *ULVA/ENTEROMORPHA* AT A GLANCE

Molecular studies show that separation of *Enteromorpha* from *Ulva* on the basis of a hollow thallus is unwarranted. For ease of identification the separation into hollow species (*Enteromorpha*) and species in which the 2 sheets of cells are firmly adherent (*Ulva*) has been retained. Images stained blue below show microscope details of specimens. Pressed specimens shown below may be darker and browner than fresh ones. The 10c piece used as a scale is 24mm across or almost 1 inch in diameter

I. *Enteromorpha* — ribbon- or thread-like, some parts hollow



cross section of a blade viewed microscopically

Ia. Plants thread-like

Enteromorpha (Ulva) clathrata

all threads several to many cells wide

worldwide in temp. waters

Enteromorpha (Ulva) paradoxa

many side threads 1 cell wide

main branches hollow, many-cells wide

worldwide in temp. waters

Enteromorpha (Ulva) ralfsii

threads un-attached, largely un-branched

500 µm

cells in longitudinal rows

worldwide in temp. waters

threads hollow

50 µm

Ib. Plants ribbon-like

cells in longitudinal and often horizontal rows

Enteromorpha (Ulva) flexuosa

worldwide in temp. waters

broad blade form with ruffled edges

narrow bladed form, branching at the base

cells unordered

Enteromorpha (Ulva) compressa
2 forms

can be confused with *Enteromorpha linza*

worldwide in temp. waters


cross section

Enteromorpha (Ulva) intestinalis

worldwide in temp. waters

cells rounded or polygonal and un-ordered

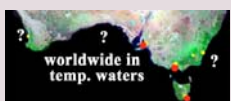
Ib. Plants ribbon-like (continued)



microscope view of a ribbon, torn to show its hollow nature construction

cells squarish and in longitudinal rows

Enteromorpha (Ulva)



?
worldwide in temp. waters
?

Ic. Plants broad, hollow parts only at edge of blades



surface silky

Enteromorpha (Ulva) linza

worldwide in temp. waters

cells squarish, in longitudinal and often transverse rows

cross section shows a narrow cavity at the blade edge only

SOUTHERN AUSTRALIAN SPECIES OF *ULVA*/*ENTEROMORPHA* AT A GLANCE (continued)

Molecular studies show that separation of *Enteromorpha* from *Ulva* on the basis of a hollow thallus is unwarranted. For ease of identification the separation into hollow species (*Enteromorpha*) and species in which the 2 sheets of cells are firmly adherent (*Ulva*) has been retained. Images stained blue below show microscope details of specimens. Pressed specimens shown below may be darker and browner than fresh ones. The 10c piece used as a scale is 24mm across or almost 1 inch in diameter

II. *Ulva* — no hollow parts in blades

IIa. blades broad



cross section of a blade viewed microscopically

Ulva australis

mass of rhizoids at base

surface cells

mass of rhizoids at base

Ulva lactuca

microscope views of blade edge

Ulva rigida

Ulva spathulata

surface cells

Iib. blades narrow

