

# Ulva spp.

Common name: Sea lettuce. Irish names: Glasán, Sleaidí. Phylum: Chlorophyta Class: Ulvophyceae Order: Ulvales Family: Ulvaceae Genus: Ulva Species: U. spp.



Fig 1. Ulva rigida thalli.

# Morphology

- The genus comprises a number of very similar leafy and tubular species. They can only be distinguished reliably by genetic markers.
- The fronds of leafy species consist of thin, grass-green, irregularly shaped lobed sheets that are two cell layers in thickness.
- Individuals can grow up to 45 cm or more in length.
- Common lobed species in Ireland are Ulva fenestrata (formerly incorrectly U. lactuca), U. rigida, and U. scandinavica.
- Ulva spp. can be confused with the related Umbraulva olivascens, which has an olive- green colour, a plastic feel and is much rarer.



Fig 2. Morphology.

## Reproduction

- Ulva have two macroscopic phases in their life-cycle (see LC3\*).
  - Female plants have olive green coloured edges before the gametes are released.
  - Male plants have yellowish coloured edges before the gametes are released.
  - Sporophytes have dark green coloured edges before the spores are released.

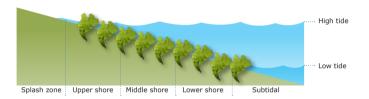


Fig 3. Ulva rigida thalli.



#### Distribution and habitat

- · About 100 Ulva species are found worldwide.
- It is found in both brackish and marine environments, particularly in estuaries, where the water is warm, and nutrient rich. Some tubular species occur in freshwater.



## Seasonality



Note: These seasonal characteristics may vary slightly from year to year.

#### Wild resource and cultivation









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# interesting facts

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- All species of *Ulva* are edible.
- *Ulva* can grow very rapidly. In summer large amounts, called green tides, can accumulate on beaches, mud-flats and salt marshes. They become a nuisance, when the seaweed decomposes and hydrogen sulphide is generated.
- Using genetic markers, green tubular species formerly assigned to the genus *Enteromorpha*

have been shown to belong to the genus *Ulva*.

Some Ulva spp.
 are known to
 have antibacterial,
 hypocholesteroelemic
 and antihelminthic
 properties.

Ulva spp. can be used as a protein source for fish, shellfish, poultry and cattle and are used in remediation of effluents. in some countries.

