

Porphyra dioica

Common names: Nori, Laver, Sloke. Irish names: Sleabhcán, Sleabhan, Sleabhac. Phylum: Rhodophyta Class: Bangiophyceae Order: Bangiales Family: Bangiaceae Genus: Porphyra Species: P. dioica



Fig 1. Adult fronds of Porphyra dioica.

Morphology

- Red alga with very thin and membranous fronds with a slippery texture. The blades can look like long and shiny ribbons, and can be olive-green to purple-brown or even blackish in appearance.
- The fronds fold in two when held vertically.
- Up to 20 cm long and 3 cm wide.
- Currently, five species of *Porphyra*-like algae (including *Pyropia* and *Wildemania*) are found in Ireland, which are difficult to tell apart.
- Other species are W. amplissima, Pyropia leucostica, Porphyra linearis, Porphyra purpurea and Porphyra umbilicalis. Identification may require molecular data.

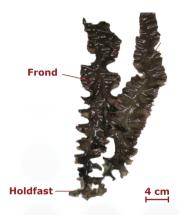


Fig 2. Morphology.

Reproduction

Porphyra dioica has a macroscopic phase in the life-cycle (see LC2*). Depending on
the species, male and female structures usually occur on different individuals, and only
occasionally on the same one.



A microscope is needed to identify male and female structures.

The sporophyte is microscopic and grows inside shells and is known as the Conchocelis phase.

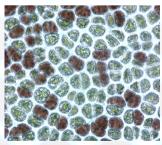


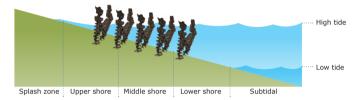
Fig 3. Female individual under the microscope.

^{*}Note: Life-cycle 2 (LC2) on page 3.

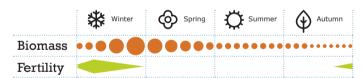


Distribution and habitat

- from the Faroes south to the Canary Islands.
- piers and can survive being buried by sand for extended periods.



Seasonality



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

Wild resource and cultivation









• Porphyra dioica is found along the European Atlantic coasts

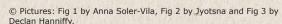
It usually grows on hard surfaces such as stones, rocks and

interesting facts

- Recent research has reclassified many species of the old genus Porphyra. For example, previously known commercial species Porphyra yezoensis and Porphyra tenera are now referred to the genus Neopyropia.
- Neopyropia yezoensis and N. tenera are cultivated in Asia from which the traditional nori sheets to make sushi are made.
- In Japan, Korea and China, 3 million tonnes

wet weight were produced in 2019 with a value of US\$2.7 billion.

- · Its nutritional value mainly lies in the high protein content although it is also rich in vitamins and minerals.
- Its economic value is based on its widespread use in Asian cuisine.



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