(syn. Lycopodium inundatum)



Perennial wetland homosporous clubmoss. Procumbent, dichotomically branched, non-flattened sterile stems up to 20 cm long. Erect, fertile stems (8–10 cm long) with sporangiumbearing leaves weakly differentiated into apical cones, leaves spirally arranged. Procumbent stems dying back quickly behind. Non-branched roots bear numerous root hairs.

Distribution and ecology

Mainly suboceanic Europe and N. America. Scattered rarely in all CE countries, from lowlands to uplands. Wet barren sandy or peaty soils, old shallow sand-pits, margins of peat bogs and fens, very often transiently as a pioneering species after sand or fen extraction on opened, disturbed areas, sometimes also slightly submerged. A strict heliophyte, competitively very weak, quickly retreats due to overgrowing by other herbs. Prefers slightly acid substrates. Ecological requirements mostly unknown.

Anatomy of the stem

The stem has a diameter of 1.5–2 mm (1, 2). Secondary growth is absent.

The stem is composed of a central cylinder, a large cortex and an epidermis (1).

The central cylinder is a plectostele, consisting of irregularly radial arranged tracheids and radial extended phloem groups (1, 2). Tracheids of the xylem are angular (2). Their walls are laterally perforated by scalariform intervessel-pits (3).

Phloem groups contain unlignified sieve elements and parenchyma cells. The plectostele is surrounded by a layer of living unlignified parenchyma cells (round nuclei) and a layer of thinwalled, lignified cells (2). The very large cortex is composed of large unlignified parenchyma cells, large intercellulars (4) and large mucilage conducting ducts (1).

