

Lobarina scrobiculata

COMMON NAME

Textured lung lichen

SYNONYMS

Lichen scrobiculatus Scop., Lobararia scrobiculata (Scop.) DC.

FAMILY

Peltigeraceae

AUTHORITY

Lobarina scrobiculata (Scop.) Nyl.

FLORA CATEGORY

Lichen – Native

ENDEMIC TAXON

No

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Lichens - Foliose

CURRENT CONSERVATION STATUS

2018 | Not Threatened | Qualifiers: SO

BRIEF DESCRIPTION

Characterised by the corticolous thallus; the scrobiculate thallus (blue-green when wet, pale yellowish or yellow-green to buff when dry), the numerous soralia on the upper surface and at the margins, the acicular, 3-septate ascospores, and the presence of scrobiculin in the medulla.

DISTRIBUTION

North Island: Auckland (Rangitoto Island), South Auckland (Mangaotaki Valley King Country, Waiotapu Valley), Wellington (Tiritea Stream Palmerston North, Tararua Ranges). **South Island:** Nelson (Lake Rotoiti), Marlborough (Wairau Valley), Canterbury (Hanmer, Peel Forest), Otago (Makarora, Hindon, Lamb Hill, Waikouaiti Reservoir, Mt Trotter, Horse Range, Boyd's Bush Dunedin, Beaumont, Tautuku Bay) to Southland (Forest Hill).

Known elsewhere from boreal regions of the Northern Hemisphere, where it is circumpolar, and from Australia.

HABITAT

Mainly in lowland to subalpine sites of high humidity. *Lobarina scrobiculata* is moderately photophilous and will not tolerate deep shade. It is most commonly found in rather open, dryish situations very often associated with the shrubs *Kunzea* and *Leptospermum scoparium* agg. when these are dominant components of the vegetation in successional habitats. It is moderately common on rocks and is also an epiphyte of *Dacrycarpus dacrydiodes*, *Griselinia littoralis*, *Metrosideros excelsa*, *Lophozonia menziesii* and *Phyllocladus alpinus*.

It commonly associates with species of *Coccocarpia*, *Degelia*, *Erioderma*, *Fuscoderma*, *Hypotrachyna*, *Leioderma*, *Nephroma*, *Normandina*, *Pannaria*, *Notoparmelia*, *Parmeliella*, *Physma*, *Heterodermia*, *Pseudocyphellaria*, *Psoroma*, *Sticta* and *Usnea*.



Corticolous on *Kunzea ericoides*, Mt Owen, Nelson. Photographer: Marley Ford, Date taken: 02/01/2021, Licence: CC BY-NC.



Soredia, Mt Owen Nelson. Photographer: Marley Ford, Date taken: 02/01/2021, Licence: CC BY-NC.

DETAILED DESCRIPTION

Thallus foliose, lobate, spreading, loosely attached, to 16 cm diam., corticolous, occasionally saxicolous or terricolous. Lobes rounded, overlapping or sometimes broadly lacinate, margins entire or slightly crenulate, often sorediate, subscaescent, \pm thickened in sorediate parts. **Upper surface** undulate, scrobiculate-reticulate but without strongly defined interconnecting ridges, matt or shining, dark bluish-green or greyish-blue when wet, pale yellowish-green or olive-buff when dry, suffused brownish at margins and there markedly scabrid-areolate, without isidia, phyllidia, maculae or pseudocyphellae. Soredia laminal and marginal, in spreading, erose soralia, punctiform on lamina at first, then eroding, \pm linear at margins, whitish or greyish, becoming bluish with age, coarse, granular. **Medulla white. Lower surface** white, delicately scabrid at margins, uneven or \pm wrinkled-bullate, not distinctly veined but with naked, whitish, scabrid patches scattered among pale tan to dark brown tomentum which extends to the margins, tomentum silky, entangled. **Apothecia** and **pycnidia** not seen.

Chemistry: Cortex K-: Medulla K+ orange-red, C+ rose or -, Pd+ orange; containing constictic, norstictic, stictic and usnic acids, meta-scrobiculin and para-scrobiculin .

SUBSTRATE

Corticolous, occasionally saxicolous or terricolous

ATTRIBUTION

Galloway D.J. 1985: *Flora of New Zealand: Lichens*. Wellington: PD Hasselberg, Government Printer. 662 pp.
Galloway D.J. 2007: *Flora of New Zealand: Lichens, including lichen-forming and lichenicolous fungi*. 2nd edition. Lincoln, Manaaki Whenua Press. 2261 pp.

REFERENCES AND FURTHER READING

Galloway D.J. 1985: *Flora of New Zealand: Lichens*. Wellington: PD Hasselberg, Government Printer. 662 pp.
Galloway D.J. 2007: *Flora of New Zealand: Lichens, including lichen-forming and lichenicolous fungi*. 2nd edition. Lincoln, Manaaki Whenua Press. 2261 pp.

MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/lobarina-scrobiculata/>