

# Pertusaria otagoana

## SYNONYMS

*Pertusaria simulans* Zahlbr.

## FAMILY

Pertusariaceae

## AUTHORITY

*Pertusaria otagoana* D.J.Galloway

## FLORA CATEGORY

Lichen – Native

## ENDEMIC TAXON

No

## ENDEMIC GENUS

No

## ENDEMIC FAMILY

No

## STRUCTURAL CLASS

Lichens - Crustose

## CURRENT CONSERVATION STATUS

Not Evaluated

## BRIEF DESCRIPTION

Characterised by the saxicolous habit; the chalky-white to dingy creamish, areolate thallus; verruciform apothecia; 1-spored asci; broadly ellipsoidal ascospores (170–305 × 70–95 µm, wall double, 17–21 µm thick, to 51 µm thick at ends); and the presence of norstictic acid.

## DISTRIBUTION

**South Island:** Otago, Southland.

## HABITAT

On subalpine rocks.

## DETAILED DESCRIPTION

**Thallus** thick, chalky-white or dingy creamish, areolate-cracked, areolae angular, convex, lumpy, separated by deep or shallow cracks, 0.3–1.0 mm diam. Fertile **verrucae** concolorous with thallus, 1–4 mm diam., rounded to irregular, ± hemispherical, apex flattened. **Apothecia** 1–12 per verruca, immersed, ostiole black, punctiform impressed, 0.01–0.02 mm diam. **Asci** clavate 1-spored. **Ascospores** broadly ellipsoid, 174–304.5 × 70–95 µm, wall 17–21 µm thick, to 52 µm thick at ends, complex, double.

**Chemistry:** K+ yellow→red, C–, KC+ red, Pd+ orange; containing norstictic acid.

## SIMILAR TAXA

It is similar to *P. subverrucosa* but is 1-spored.

## SUBSTRATE

Saxicolous

## ATTRIBUTION

Fact sheet prepared by Marley Ford (18 February 2021). Brief description, Distribution, Habitat, Features, and Similar taxa sections copied from Galloway (1985) & Galloway (2007).



Saxicolous two species present, yellow (*Pertusaria lophocarpa*) and white (*Pertusaria otagoana*), Slopdown Forest Southland. Photographer: Marley Ford, Date taken: 16/11/2022, Licence: CC BY.



Saxicolous, Slopdown Forest Southland. Photographer: Marley Ford, Date taken: 16/11/2022, Licence: CC BY.

## 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/pertusaria-otagoana/>