

Pertusaria xanthoplaca

FAMILY

Pertusariaceae

AUTHORITY

Pertusaria xanthoplaca Müll.Arg.

FLORA CATEGORY

Lichen – Native

ENDEMIC TAXON

No

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Lichens - Crustose

CURRENT CONSERVATION STATUS

2018 | At Risk – Naturally Uncommon | Qualifiers: SO

BRIEF DESCRIPTION

Characterised by the saxicolous (coastal rocks) habit; the yellow, sorediate thallus, and the presence of thiophaninic and stictic acids.

DISTRIBUTION

North Island: Northland (Hen Island, Chicken Island, Great Barrier Island, Little Barrier Island, Great Mercury Island).

Also in East Australia from Queensland to New South Wales, Lord Howe Island, Norfolk Island, and Papua New Guinea.

HABITAT

On coastal rocks.

DETAILED DESCRIPTION

Thallus dull- to bright-yellow, areolate, surface smooth and dull, sorediate. **Soredia** scattered, somewhat immersed 0.2–0.25 mm diam.

Apothecia verruciform, rare, when present, scattered, rarely confluent, concolorous with thallus, slightly flattened, hemispherical, becoming constricted at base, 0.5–1 mm diam.; ostioles inconspicuous, pale to dark yellowish brown, 1 per verruca. **Ascospores** 8 per ascus, irregularly uniseriate, ellipsoidal, rarely subfusiform, smooth, 50–75(–90) × 25–37 µm.

Chemistry: K–, KC+ orange, C+ orange, Pd– or + weak yellow; containing thiophaninic acid (major), 2-chloro-6-O-methylnorlichexanthone (tr.), 4-chloro-6-O-methylnorlichexanthone (tr.), stictic acid (major), constictic acid (minor), ±lichexanthone (minor-tr.), rarely with additional norstictic acid (minor).

SUBSTRATE

Saxicolous

ATTRIBUTION

Fact sheet prepared by Marley Ford (7 January 2024). Brief description, Distribution, Habitat, and Features sections copied from Galloway (2007).



Saxicolous, Maungaraho Rock Dargaville.
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REFERENCES AND FURTHER READING

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-xanthoplaca/>