

Pertusaria allosorodes

FAMILY

Pertusariaceae

AUTHORITY

Pertusaria allosorodes Elix & A.W.Archer

FLORA CATEGORY

Lichen – Native

ENDEMIC TAXON

Yes

STRUCTURAL CLASS

Lichens - Crustose

CURRENT CONSERVATION STATUS

2018 | Data Deficient

DISTRIBUTION

North Island: Northland: Mangamuka, Hokianga, Maunganui Bluff. **South Island:** Banks Peninsula.

HABITAT

Forest, coastal habitats

DETAILED DESCRIPTION

Thallus pale fawn, surface smooth and dull, somewhat cracked, lacking isidia and soredia, corticolous. **Apothecia** verruciform, flattened, sometimes becoming concave, scattered or confluent. 1.5–3 mm diam.

Ostioles black, conspicuous, 1–3 per apothecia. **Ascospores** 2 per ascus, ellipsoid, hyaline with a rough inner wall, 175–210 µm long, 50–70 µm wide.

Chemistry: 2-O-methylstenosporic acid (major), 4,5-dichlorolichexanthone (minor), norstictic acid (minor) and 2-O-methylperlatolic acid (trace).

SIMILAR TAXA

Pertusaria allosorodes resembles *P. sorodes* in that both species are corticolous and have flattened, multi-ostiolate apothecia, asci with two large ascospores, c. 200 µm long, with rough inner walls. The two species differ chemically: *P. sorodes* contains stenosporic and perlatolic acids whereas *P. allosorodes* contains the O-methylated analogues, 2-O-methylstenosporic and 2-O-methylperlatolic acids. The somewhat similar species, *Pertusaria southlandica* also from New Zealand, contains conhypoprotocetraric acid and 2-chlorolichexanthone, whereas another somewhat similar species, *P. subsorodes* from Papua New Guinea, contains 2'-O-methylperlatolic acid.

This species also resembles *P. wattiana*. This species has flattened, multi-ostiolate apothecia, two rough-walled ascospores per ascus and contains norstictic and 2-O-methylstenosporic acids as major compounds but the ascospores are smaller (110–137 × 37–45 µm) than those of *allosorodes* (175–210 × 50–70 µm).

SUBSTRATE

Corticolous

ATTRIBUTION

Fact sheet prepared by M. Ford (2 August 2021). Description adapted from Archer & Elix (2013).



Corticolous on mangroves (*Avicennia marina* subsp. *australasica*). Photographer: Marley Ford, Licence: CC BY-NC.



Corticolous on pohutukawa (*Metrosideros excelsa*). Photographer: Marley Ford, Licence: CC BY-NC.

REFERENCES AND FURTHER READING

Archer A.W. and Elix J.A. 2013: New Species of Pertusaria (Pertusariaceae) from Australia. *Telopea* 15: 111-117.

MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/pertusaria-allosorodes/>