

# Diploschistes actinostomus

## SYNONYMS

Verrucaria actinostoma [Pers. ex] Ach.,

## FAMILY

Graphidaceae

## AUTHORITY

Diploschistes actinostomus (Pers.) Zahlbr.

## FLORA CATEGORY

Lichen – Native

## ENDEMIC TAXON

No

## ENDEMIC GENUS

No

## ENDEMIC FAMILY

No

## STRUCTURAL CLASS

Lichens - Crustose

## CURRENT CONSERVATION STATUS

2018 | Data Deficient | Qualifiers: OL, SO

## BRIEF DESCRIPTION

Characterised by the saxicolous habit; the grey-white to greyish thallus; perithecioid ascomata; 4–8-spored asci; ellipsoidal ascospores, 16–32 × 10–20 µm; and lecanoric acid in the medulla.

## DISTRIBUTION

**South Island:** Otago. Also found in Canterbury (Banks Peninsula) in 2019 (Allison Knight, pers. comm.).

Known also from Europe, Macaronesia, Asia, North America, West Indies, North Africa, South Africa, Socotra, India, Nepal and Australia.

## HABITAT

On base-rich siliceous rocks in open, sunny sites.

## DETAILED DESCRIPTION

**Thallus** crustose, uniform, rather thin, areolate, areolae 0.5–1.5 mm diam. **Upper surface** whitish grey to grey, smooth, glossy to matt, epruinose. **Apothecia** perithecioid, immersed, to 3 mm diam.; disc blackish, plane. Proper exciple to 70 µm thick. Hymenium 120–160 µm tall. **Asci** cylindrical to clavate, 4–8-spored. **Ascospores** brown, muriform, ellipsoidal, 16–32 × 10–20 µm, 4–6 transverse septa, 1–3 longitudinal septa per transverse segment.

**Pycnidia** immersed. **Conidia** bacillar, 4–7 × 1 µm.

**Chemistry:** K–, C+ red, Pd–; containing lecanoric acid (major), diploschistesic acid (tr.), orsellinic acid (tr.), atranorin (tr.), chloroatranorin (tr.).

## SIMILAR TAXA

Poorly developed forms are distinguished from *D. euganeus*, which has no secondary chemistry and broadly ellipsoidal ascospores.

## SUBSTRATE

Saxicolous

## ATTRIBUTION

Fact sheet prepared by Marley Ford (28 December 2021). Brief description, Distribution, Habitat, Features, and Similar taxa sections copied from Galloway (2007).



## 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/diploschistes-actinostomus/>