

Gyalolechia flavovirescens

COMMON NAME

Sulphur firedot

SYNONYMS

Caloplaca flavovirescens, Lichen flavovirescens

FAMILY

Teloschistaceae

AUTHORITY

Gyalolechia flavovirescens (Wulfen) Søchting, Frödén & Arup

FLORA CATEGORY

Lichen – Native

ENDEMIC TAXON

No

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Lichens - Crustose

CURRENT CONSERVATION STATUS

2018 | Data Deficient | Qualifiers: RR, SO

BRIEF DESCRIPTION

Characterised by the saxicolous habit (basicolous, coastal rocks); the pale, grey-white, scurfy-granular thallus; crowded to dispersed apothecia, to 1 mm diam., the discs orange-brown; and broadly ellipsoidal ascospores, (13–)15–16.5(–18.5) × 6.5–10 µm; septum 3–5 µm thick, ¼ to ⅓ length of spore.

DISTRIBUTION

South Island: Otago (Matanaka).

Known also from Great Britain, Europe, Scandinavia, the Himalaya, North America, Australia.

HABITAT

Basicolous coastal rocks (limestone)

DETAILED DESCRIPTION

Thallus crustose, granular-scurfy, yellow-green to greyish white, often indistinct. **Apothecia** common, conspicuous, scattered to crowded, 0.1–1.0 mm diam., the discs convex, dark orange-brown. **Epithecium** yellow, granular, 8–12 µm thick. **Hymenium** colourless, 55–70 µm tall, without oil droplets. **Paraphyses** simple, 2 µm thick, apices swollen to 4 µm diam., not moniliform or branched. **Asci** clavate or cylindrical-clavate, 50–60 × 16–20 µm, 8-spored.

Ascospores biseriate in ascus, broadly ellipsoidal (13–)15–16.5(–18.5) × 6.5–10 µm; septum 3–5 µm thick, ¼ to ⅓ length of spore.

Chemistry: Thallus and apothecia K+ violet-red; containing parietin.

Apothecia and thalli may be parasitised by **Muellerella lichenicola* (q.v.).

SUBSTRATE

Saxicolous (limestone rocks)

ATTRIBUTION

Fact sheet prepared by Melissa Hutchison (22 August 2022). Brief description, Distribution, Habitat, and Features 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/gyalolechia-flavovirescens/>