

Edrudia Jordan

(LECANORALES: TELOSCHISTACEAE?)

Thallus dwarf fruticose, orange; branches dorsiventrally compressed; rhizines lacking; cortex prosoplectenchymatous. Apothecia terminal, lecanorine, orange. Paraphyses filiform. Hymenium I+ blue. Asci clavate. Spores simple, elliptical, hyaline. Pycnidia immersed. Pycnospores filiform. Photobiont trebouxoid. Cortex K+ red (parietin). On rock. Type species: E. constipans. Monotypic.

Differs from Caloplaca in having simple ascospores and filiform pycnospores.

E. constipans (Nyl.) Jordan

Thallus dwarf fruticose, 612 mm high, forming dense cushions, commonly 1525 mm broad; apical portions orange, basal portions tan to white, occasionally blackening. Primary branches erect or decumbent, to 1.1 mm wide, dorsiventrally compressed; lower surface paler than above. Secondary branches short, flabellate; tips irregularly dichotomous. Rhizines lacking. Tissues ± radially arranged. Cortex 2488 µm thick, prosoplectenchymatous; dorsal portion of highly irregular thickness due to intrusion of algal layer, ventral portion more regular. Algal layer continuous but dorsiventrally differentiated; dorsal portion 5784 µm thick, ventral portion 2455 µm thick. Algal cells 914 µm diam. Medulla hyaline; peripheral portion lax, central portion with one or more cartilaginous strands.

Apothecia terminal on branches, commonly eccentrically attached, 1.53.0 mm broad, becoming strongly concave; margin thick, persistent, becoming flexuous and often strongly sinuate, orange. Epihymenium orangegranular; hymenium 4868 µm high, I+ blue; hypothecium hyaline to yellowish, becoming prosoplectenchymatous, 3662 µm thick, with algal layer below. Paraphyses filiform, ca. 2 µm diam., tips often clavate, unbranched, occasionally anastomosed. Asci clavate, 3445 x 1015 µm. Spores 8, hyaline, ellipsoid, simple, commonly with an incomplete transverse cytoplasmic band, 9.514.5 x 4.66.0 µm.

Pycnidia along dorsal surface of branches, immersed, subglobose. Pycnospores filiform, straight or curved, 1722 x 0.91.1 µm. Cortex K+ red (parietin), C, KC, P. On vertical rock faces, maritime. Known only from the Farallon Islands (off San Francisco), California.

Jordan, W. P. 1980. Edrudia, a new genus from California
(Lichenes: Teloschistaceae). The Bryologist 83: 6467.