

Xanthopsorella Kalb & Hafellner
(XANTHOPSORELLACEAE)

After Schneider, 1979

Rev. 5/94

Thallus squamulose, forming rosettes, with outer squamules elongated, the upper side yelloworange; medulla K+ red. Apothecia black, immarginate, convex; exciple lecideine, rudimentary; paraphyses mostly simple, 1.52 um thick, not swelling, the tips scarcely thickened; epihymenium redbrown; asci with small ocular chamber, but without axial mass; surrounded by amyloid gelatin; spores globose. Pycnospores similar to those in Lecanactis abietina. On calcareous rock.

X. texana

Thallus extensive, forming rosettes, to 6 cm across; outer squamules 35 mm across, elongated; inner ones 22.5 mm; squamules flatlying, archedup or mostly ascending, the margins in any case always free; especially the wider inside lying lobes densely crowded or overlapping each other; upper surface yelloworange, wrinkled, with numerous domeshaped projecting pycnidia; squamules in outline very irregular, distorted or bent; margin weakly incised to distinctly lobed. Cortex in upper part densely interspersed with yellowish crystals; epinecral layer narrow, hyaline. Photobiont 1012 um diam. Medulla intense yellow; hyphae 34 um diam., thin walled.

Apothecia black when fresh and dry, scattered, sessile with broad base, laminal on the lobes, immarginate, convex. True exciple rudimentary, redbrown at outer edge, colorless within. Epihymenium redbrown, ca. 15 um. Hymenium with amyloid coloring frequently scarcely visible due to relatively few developed asci. Paraphyses thinwalled, strongly coherent, mostly simple, the apical cells unpigmented, scarcely thickened. Asci 2030 x 710 um, thinwalled, with small ocular chamber, but without axial mass; surrounded by amyloid gelatin. Spores colorless, globose, 34 um diam., thinwalled, smooth, without halo. Apothecial parts K, C, KC, P, I.

Pycnidia numerous, forming typical phialospores (which are known from Lecanactis abietina). Medulla K+ red, P+ red, C, KC; containing fragilin, parietin, and unknown anthraquinone. On calcareous rock. Texas to southern Mexico (Chiapas).

Literature

Schneider, G. 1979. Psora sensu Zahlbr.