

Cephalophysis (Hertel) Kilius

After Hertel, Thomson, and others

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Thallus crustose, whitish or gray, mostly immersed, K-, C-, I-. Apothecia black, marginate at least when young, epruinose, scabrid, to 0.3 mm diam., becoming convex and immarginate; exciple excipulum pale inside, rose-violet, K+ intense violet; hypothecium dark brown; hymenium ca. 50 µm high; hymenium and epihymenium greenish, K-. Paraphyses of Cephalophysis-type, strongly capitate thickened at tips, rather easily free. Asci subcylindrical, of the Teloschistes-type, swollen below the apex. Spores simple, hyaline, ellipsoid. Pycnospores unknown. On calcareous rock, arctic-alpine.

C. leucospila

Thallus lacking or reduced to a few scattered areolae, varying to a chinky white thallus.

Apothecia to 0.5-0.8 mm broad, black, shining, epruinose, with slightly convex, umbo-free disk, marginate only when young; exciple exterior brown-black, interior reddish to slightly wine-red; hypothecium brown-black, reddened with K; epithecium very blue-green, grading into hymenium; hymenium 50-70 µm, light blue-green to nearly hyaline; paraphyses weakly conglutinate, easily separable in water, simple, seldom bifurcate branching and anastomosing, lower part to 2 µm, upper part swollen and bead-like, to 5-8(-10) µm; asci subcylindrical; spores uniseriate to biseriate, ellipsoid, not halonate, 6-11 x 4-6.5 µm. Conidia 3-5 x 1 µm. Medulla K-, C-, P-; exciple K+ violet; hymenium I+ blue. On calcareous rocks and pebbles in the open. Arctic.

Literature

Hertel, H. 19__.

Thomson, J. W. 1997. American Arctic Lichens. II. The Microlichens.

C. leucospila

Thallus absent or forming minute dispersed white-gray spots. Apothecia 0.2-0.3 mm diam., at first plane, marginate, then soon convex and immarginate; discs black, epruinose, scabrid. Hymenium pale to sometimes intense smaragdine green, 40-70 μ m. Paraphyses easily free at least in K, at first thin then with very strongly swollen apical cells 5-8 μ m thick. Hypothecium brown-black to olive-black. Asci clavate. Spores simple, broadly ellipsoid, 6-8.5-11 x 4-5-6.5 μ m. Exciple distinctly rose-violet, pale inside. Apothecia (at least exciple) K+ purple violet, C-, P- or P+ yellow. Medulla K-, I-. Hymenium I+ persistent blue. On calcareous rock.

Literature: Lynge, 19___. Lichens from Nova Zemlya. Hertel, 19___. Cryptothalline Lecidea.