Porina muluensis P. M. McCarthy & Coppins

Typus: Malaysia, Sarawak, Gunong Mulu National Park, 4th Division, Baram District, Bukit Long Pala, alt. 70–100 m, on moderately exposed, more-or-less vertical limestone rocks overlooking river, 17 April 1978, *B. J. Coppins* 5375 (Holotypus: SAR; isotypus: E).

Thallus epilithic, pale yellowish fawn to mid-grey to dark smokey grey, becoming greenish when wetted, continuous to sparingly rimose, matt to slightly glossy, smooth, $50-120(-200) \mu m$ thick, K+ dull reddish brown, lightly to heavily impregnated with crystals and other minute rock fragments. *Cortex* pseudoparenchymatous, $10-20 \mu m$ thick, consisting of rounded $3-4(-5) \mu m$ diam. cells with comparatively thick hyaline to dark brown walls. *Algae Trentepohlia*, broadly ellipsoid to subglobose, $6-12 \times 6-10 \mu m$. Hyphae ($3-4-6(-7) \times 3-5 \mu m$, angular and more-or-less vertically-elongate above, $3-4 \mu m$, isodiametric and rounded or angular below. *Prothallus* not apparent.

Perithecia immersed in thallus-dominated verrucae. Verrucae (0.36–)0.57(– 0.76) mm diam., hemispherical or almost superficial and slightly constricted at the base, very numerous, solitary. Perithecial apex rounded or somewhat flattened. Ostiole inconspicuous, or in a shallow depression, or in a hemispherical, apical papilla. Involucrellum apical to dimidiate, or occasionally, extending to excipulum-base level, concolorous with the thallus except for a 0.14–0.3(–0.45) mm wide, 20–40 µm thick, matt black area near the apex, heavily impregnated with rock fragments and/or crystal-like structures, K+ reddish brown. Excipulum pale yellowish brown, 20-35 µm thick. Centrum globose to depressed-ovate, 0.2-0.3(-0.35) mm wide. Paraphyses unbranched, c. 1 µm wide. Periphyses absent. Asci unitunicate, uniformly thin-walled, elongate-cylindrical, with rounded or truncate apices. 98–120 x 9–12 µm. Ascospores mostly 7-septate (c. 5% with 9-septa), fusiform to elongate-fusiform, mostly straight, with pointed ends, irregularly massed in the asci, $(24-)34(-41.5) \times (3-)4.5(-6) \mu m$ (50 measured); immature ascospores may have a 2 µm thick gelatinous sheath; contents clear.

Conidiomata very numerous, semi-immersed to almost entirely immersed in the thallus, dark grey-brown above, hyaline below, $70-120(-150) \mu m$ diam., with a richly convoluted conidiogenous layer. *Conidia* elongate-ellipsoid to fusiform, $2-3 \times 0.8 \mu m$.

Known from limestone at the type locality in the lowlands of north-eastern Sarawak, Malaysia.