

***Porina siamensis*** P. M. McCarthy

Typus: Thailand, Nakhon Nayok, Khao Yai National Park, Khao Kiew, near cliffs, c. 100 m below road to summit, alt. c. 1300 m, on deeply shaded semi-aquatic sandstone, 4 November 1997, *P. M. McCarthy T20/97* (Holotypus: CANB).

*Thallus* epilithic, determinate, sparingly to richly and regularly rimose to areolate, smooth, matt, pale to medium grey-green, (20–)40–60(–80)  $\mu\text{m}$  thick, ecorticate, not impregnated with rock fragments and crystals, K-. *Algae Trentepohlia*; cells 5–10(–12)  $\times$  4–10  $\mu\text{m}$ . Hyphae 1.5–2.5  $\mu\text{m}$  wide. *Prothallus* usually greenish black, delimiting and bisecting thalli. *Basal layer* absent.

*Perithecia* very numerous, mostly solitary, semi-immersed to  $\pm$  superficial, convex to hemispherical or subconical, greenish black, not overgrown by the thallus. *Perithecial apex* usually rounded, occasionally somewhat flattened or pointed; ostiole inconspicuous or in a shallow depression. *Involucrellum* with an outer, 20–35  $\mu\text{m}$  thick, K-, greenish black layer, internally dark greenish brown and subtended by algae and a reticulum of thalline hyphae, (0.19–)0.25(–0.35) mm diam. [35], extending almost to excipulum-base level. *Centrum* subglobose to depressed-ovate, 0.14–0.22 mm diam. *Excipulum* uniformly hyaline to pale brown or yellowish brown, 10–15  $\mu\text{m}$  thick. *Subhymenium* 20–40  $\mu\text{m}$  thick. *Paraphyses* unbranched, 0.8–1  $\mu\text{m}$  wide. *Periphyses* absent. *Asci* elongate-cylindrical, 72–86  $\times$  8–9  $\mu\text{m}$  [14], with a rounded or subtruncate apex and a distinct, apical chitinoid ring (in Congo Red). *Ascospores* 3-septate, cylindrical to fusiform, straight or slightly curved, with rounded to subacute ends, irregularly biseriate in the asci, (14–)17(–24)  $\times$  (3–)3.5(–4.5)  $\mu\text{m}$  [79], lacking a perispore; contents clear.

*Conidiomata* very numerous, semi-immersed and convex to hemispherical to almost entirely immersed, dark greenish brown above, hyaline below, 80–120  $\mu\text{m}$  diam., with a simple conidiogenous layer. *Conidia* fusiform, 2–3  $\times$  0.7  $\mu\text{m}$ .

*Porina siamensis* is moderately abundant on semi-aquatic sandstone along a 200 m stretch of a seasonal creek which is deeply shaded by overhanging vegetation in montane rainforest.