

Cryptomarasmius sp.



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Cap: 1–3 mm diameter, fulvous brown (12), with darker central disc and very slight umbo; convex, sulcate-striate.

Stipe: central, hair-like, 10–25 × 0.1–0.2 mm; black with paler apex, insertion insititious; surface appears glossy but is finely pubescent under magnification.

Lamellae: distant, 5–11, with some cross-venation in mature fruitbodies; adnexed, but no collar; white with occasional brown margin in outer one-third of mature lamellae; no lamellulae.

Flesh: flesh very thin.

Spores: smooth, ellipsoid, av. $9 \times 4 \mu\text{m}$, $Q_{\text{av}} = 2.37$, range $8.5\text{--}10 \times 3.5\text{--}4.5 \mu\text{m}$, $Q_{\text{min}} = 2.15$, $Q_{\text{max}} = 2.57$.

Basidia: 4-spored, $17.5\text{--}23 \times 6.5\text{--}7.5 \mu\text{m}$.

Pleurocystidia: absent.

Cheilocystidia: fusiform, irregular, $20\text{--}25 \times 5.5\text{--}7.5 \mu\text{m}$.

Pileipellis: hymeniderm of *Rotalis*-type broom cells, $11.5\text{--}17 \times 7\text{--}11.5 \mu\text{m}$, thick-walled in outer half. Clamp connections present, no dextrinoid reaction in any tissue.

Stipitipellis: coralloid, decorated hyphae, 2–3 μm diameter.

Substrate: unknown leaf.

Habitat: regenerating subtropical rainforest, in garden.

Collections examined: F2020052, Dilkusha Nature Refuge, Maleny, 16 Jun 2020, *F.E. Guard*, BRI AQ1021669; same location, 16 Mar 2022, *F.E. Guard*, F2022051, BRI AQ10411096.

Notes: This collection fits in the old Sect. *Hygrometrici* of Genus *Marasmius*, and appears close to *M. minutoides* (Antonin 2003) from central Africa, which has not been sequenced. DNA studies have shown that this Section is not closely related to other *Marasmius*. Jenkinson et al, *Mycologia* 106 (1), 2014, pp 86–94, proposed that 28 species formerly in *Hygrometrici* should go into a new Genus, *Cryptomarasmius*, within the Family *Physalacriaceae*. This species is sister to *C. crescentiae* from Russia and Thailand and is a new species.