

## *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  $8.5–10 \times 3.5–4.5 \mu\text{m}$ ,  $Q_{\text{min}} = 2.15$ ,  $Q_{\text{max}} = 2.57$ .

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

**Pleurocystidia:** absent.

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

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

**Stipitipellis:** coralloid, decorated hyphae,  $2–3 \mu\text{m}$  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.