

*Marasmius tangerinus* Wannathes et al. 2023



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**Cap:** 3–7(–12) mm diameter; pale orange to dark orange; convex; broadly umbilicate, occasionally papillate; sulcate-striate; glabrous.

**Stipe:** central; 16–34 × 0.3 mm; orange to straw yellow; smooth; wiry; insititious. Sterile stipes and pale rhizomorphs sometimes present.

**Gills:** distant; 12–14(–16); cream with orange margin; deep; adnate to broad collar, no lamellulae.

**Flesh:** thin, cream.

**Spores:** white in mass; broadly ellipsoid; inamyloid; smooth;  $8.5 \times 5 \mu\text{m}$ ,  $Q_{\text{av}} = 1.75$ , range  $7.5\text{--}9.5 \times 4\text{--}5.5 \mu\text{m}$ ,  $Q_{\text{min}} = 1.65$ ,  $Q_{\text{max}} = 1.92$ .

**Basidia:** 4-spored,  $30 \times 6 \mu\text{m}$ .

**Cheilocystidia:** abundant *Siccus*-type broom cells, producing sterile margin; clavate; cylindrical;  $8\text{--}17 \times 5\text{--}8 \mu\text{m}$  with sparse, thick-walled digits,  $2\text{--}5 \times 1\text{--}2 \mu\text{m}$ , occasionally bifid.

**Pleurocystidia:** nil.

**Pileipellis:** palisade of a) variable *Siccus*-type broom cells, sub-globose, globose, clavate, cylindrical  $8\text{--}16 \times 5\text{--}9 \mu\text{m}$ , with sparse, broad occasionally thick-walled digits; and b) smooth, irregular cells.

**Caulocystidia:** absent.

**Habitat:** wet tropical rainforest.

**Substrate:** gregarious on old termite mound and well-rotted log.

**Collections examined:** FNQ, Barron Gorge NP, Cadagi Corner, 27 Mar. 2020, 16 Jan. 2021, 1 Jan. 2022, *L. Reinhold*, LMR FNQ1 (BRI AQ), 11 (BRI AQ1045325), 15 (BRI AQ1043698); and different location, Speewah, 15 May 2022, *L. Reinhold*, LMR FNQ17 (BRI AQ1043699).

**Notes:** this species is readily recognised with its orange, dimpled cap, collar and insititious stipe. With DNA (ITS) it is >97% identical to the Thai species, *M. tangerinus*, described from one collection, which is smaller (2 – 3 mm) with fewer gills (10 – 11), but identical microscopically. Further collections from Thailand may broaden the species concept.