

Marasmius lebeliae F.E. Guard sp. nov. 2019



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Cap: 5–10 mm diameter, cinnamon (10) to fulvous (12), usually paler outer half and darker central disc, sulcate-striate, broadly conical with blunt apex to campanulate

Stipe: 35–55–(80) × 0.2–0.5 mm, wiry, smooth, black base, brown mid section, to yellowish-buff apex; small basal mycelial pad (hand lens)

Lamellae: distant, 7–11, free, white and rarely have coloured margin.

Flesh: minimal.

Spores: inamyloid, smooth, clavate, average $32.5 \times 5.5 \mu\text{m}$, $Q_{av}=5.84$, range $31\text{--}34 \times 4.5\text{--}5.5$ (–6) μm , $Q_{min}=5.45$, $Q_{max}=6.32$.

Basidia: 4-spored, occasionally very large.

Pleurocystidia: narrow moniliform, narrow to broadly clavate with swollen mucronate apices $11\text{--}25 \times 3\text{--}6 \mu\text{m}$.

Cheilocystidia: present in 2 forms: (a) constricted cylindrical cells $29\text{--}33 \times 5\text{--}9 \mu\text{m}$, (b) Siccus-type broom cells, with cylindrical bodies, $16\text{--}27 \times 3.5\text{--}5.5 \mu\text{m}$ and digitate projections $3.5\text{--}5.5 \times 0.7\text{--}0.9 \mu\text{m}$.

Pileipellis: Siccus-type broom cells, cylindrical to broadly clavate, occasionally branched, with thick-walled digitate projections.

Substrate: leaf litter, especially *Casuarina* needles.

Habitat: regenerating subtropical rainforest.

Collections examined: F2018011, F2018012, F2018013, Coll. FE Guard, Location Dilkusha Nature Refuge, Maleny, 3/2/18; also, F2018018 on 5/2/18, F2019002 on 9/2/19, F2019033, F2018034 on 1/5/19 coll. FE Guard, Dilkusha NR.

Notes: This new species has been found on Dilkusha near Maleny several times and is recognisable by its sparse gills (7–11), cinnamon cap and very long clavate spores. It is probably much more widespread, but needs to be searched for.