

Marasmius australotrichotus F.E.Guard, Dearnaley & T.Lebel 2023



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Cap: 5 – 15 mm diameter, apricot (47) to rust (13) with darker centre; convex to applanate with wavy margin; surface velvety.

Stipe: 25 – 60 (– 80) × 0.5 – 1 mm, reddish-brown strigose base, pale brown mid-section and cream apex, hollow, fleshy, surface finely hairy.

Gills: moderately close, 14 – 16, with 3 – 4 tiers of lamellulae, free to adnexed, cream, no coloured margin.

Flesh: thin white.

Spore print: white.

Spores: 10.5 – 13 × 3.5 – 4.5 μm , $Q = 2.49 - 3.71$, $Q_m = 3.08$; narrow ellipsoid in face view, often slightly curved in profile; hyaline; inamyloid.

Basidia: 3- to 4-spored; rare; 21 – 23 × 6 – 7.5 μm .

Cheilocystidia: *Siccus*-type broom cells, cylindrical, clavate, occasionally branched; main body 10 – 19 × 5 – 9 μm , with multiple apical setules, 2.5 – 6.5 × 1 – 1.5 μm .

Pleurocystidia: absent.

Pileipellis: 1. Common *Siccus*-type broom cells, cylindrical, clavate, sometimes thick-walled; main body 13.5 – 22 × 5 – 9 μm , with multiple thick-walled apical setules, 4 – 6 × 1 – 1.5 μm ; and 2. Moderately common lanceolate setae, 50 – 130 μm × 4 – 6 μm midshaft, mostly thick-walled with acute apices, bases bulbous to boot-shaped.

Habitat: On leaf litter in *Eucalyptus* and *Allocasuarina* forests, also suburban road verges and mulched gardens. Solitary to caespitose.

Notes: This new species looks like a small skinny-stemmed *M. elegans*, but a hand lens will show bristles on stem and cap. It has been found in FNQ and SEQ in NPs and suburban gardens.

Collections examined: Davies Creek National Park, 13 Feb 2021, *F.E. Guard, R. Palmer & T. Lebel* F2021058 (BRI AQ1033129); Clacherty Rd, Julatten, 17 Feb 2021, *T. Lebel & J. Dearnaley* F2021072 (BRI AQ1033131); The Fort Bushland Reserve, Oxley, Brisbane, 25 Mar 2017, *M. Prance* 20170327MP4 (BRI AQ1023218); and several more.