

Outlineoffungi.org - Note 986 *Australocybe*

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Australocybe T.J. Baroni, N. Fechner & van de Peppel

The monotypic genera *Australocybe* was described by van de Peppel et al. (2022) and typified by *Australocybe olivacea* T.J. Baroni, N. Fechner & L.J.J. van de Peppel based on the morphological characteristics and phylogenetic analysis of ITS, LSU, and TEF1- α sequence data. *Australocybe* is distributed in Australia. This genus can be found on various substrates in sandy soil, rooting in soil on different hosts such as *Allocasuarina*, *Eucalyptus pilularis*, other *Eucalyptus* species, and *Leptospermum* (van de Peppel et al. 2022). *Australocybe* is characterized by broadly conical-convex surfaces that become plane with dark fuscous brown pileus. Basidiocarp is olive-grey, deep fuscous brown colour. Lamellae are olive to olive-grey and yellowish grey, adnexed, dense, rarely forked, and have an even edge. Stipe is concolorous, pale greenish golden-olive or greyish yellow. Basidiospores are elliptical, round, and smooth, with slightly congophilous walls. Basidia are narrowly clavate, 4-sterigmate, and have large cyanophilic bodies. The taxonomic placement of *Australocybe* is in *Agaricales*, [Agaricomycetidae](#), [Agaricomycetes](#), [Agaricomycotina](#), and [Basidiomycota](#).

Reference

van de Peppel LJ, Aime MC, Læssøe T, Pedersen OS, et al. 2022 – Four new genera and six new species of lyophylloid agarics (*Agaricales*, *Basidiomycota*) from three different continents. *Mycological Progress* 21, 85. <https://doi.org/10.1007/s11557-022-01836-7>

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