

Agaricus species 3

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Agaricus sp 3 ©

Cap: campanulate with a flattened top (typical for the Xanthodermati) when young, becoming applanate at maturity; 20 - 35 mm diameter; pale grey black when young, becoming greyish white with minute lanose (woolly) covering that breaks in to small squamules in places.

Stipe: cylindrical with an emarginate bulb at base; 35 × 6 mm; white; staining bright citrine yellow at base; ring floppy, 75% up stipe, white with a black edge.

Gills: free, moderately crowded, greyish at first becoming dark brown to fuscous.

Flesh: thin, white, becoming instantly bright yellow on exposure to air in the lower half of the stipe.

Spore print: dark brown.

Spores: ellipsoid; 5.3 - 6.9 × 3.4 - 4.4 µm; no germ pore.

Cheilocystidia: not observed.

Pleurocystidia: not present.

Pileipellis: a cutis.

Habitat: in rainforest amongst deep woody litter.

Notes: whilst clearly in the Xanthodermati, this small fungus differs from most species known, it is close to *A. moelleri*, but that does not have a bulbous base; it is not *A. rotalis* on account of its colour and not *A. endoxanthus* on account of the bulbous base and spore size. At present it must be considered a new species.

Collections examined: QMS P10, Bunya Mountains National Park, Pat Leonard, 28 Mar 2009.