

Agaricus moelleri



Agaricus moelleri © Pat Leonard

Cap: convex with a broad umbo; 50 - 80 mm diameter; white background covered in fine, very dark grey brown to sepia fibrillose squamules; umbo a uniform dark brown to sepia colour; surface dry, pileus surface radially splitting with age in some specimens; margin acute, fragments of white veil persisting on lower margin.

Stipe: cylindrical, somewhat broadening upwards, with a distinct emarginate bulb at the base; 90 - 120 × 7 - 10 mm; white, glabrous; cylindrical to somewhat irregular; lower surface turning a bright citrine yellow on scratching; ring 80 up the stipe, descending, large, white.

Gills: free, crowded, pale greyish pink at first then turning a dark brown with a pinkish tinge.

Flesh: white in cap, discolouring very slightly yellow; almost immediately citrine yellow in stipe base.

Smell: strong, iodoform or carbolic soap.

Spores: chocolate brown; ellipsoid; 5 - 6 × 3.5 - 5.5 μm; no germ pore.

Cystidia: lamellar edge mostly sterile.

Cheilocystidia 8 - 15 × 5 - 8 μm; sub-globose, some in chains;

Pileipellis: a cutis.

Habitat: in small groups on an exposed bank of dry dust beneath a building and a layer of asphalt. This is a really hostile environment devoid of vegetation and with no visible organic matter in this soil.

Notes: the darkish fibrillose cap and the bright yellow colour in the flesh at the base of the stipe distinguish this species of *Agaricus xanthermus*.

Collections examined: BRI, AQ 619983, Buderim, Pat Leonard, 15 Sep 2007, Buderim,