

## *Amanita umbrinella*



*Amanita umbrinella* © Pat Leonard

**Cap:** convex becoming applanate; 70 – 80 mm diameter; glabrous, but breaking in to patches (rimose) as it ages; brownish grey, grey buff (6C4, 6D4); velar remains as one or more flat white patches on cap; margin appendiculate.

**Stipe:** clavate rather than bulbous; 70 – 90 × 10 – 25 mm; glabrous, but with matt membranous velar remains forming a ring and floccules; no velar remains evident at base.

**Gills:** free; quite thick; white to cream; with a single series of lamellulae irregularly present.

**Flesh:** thick, white.

**Taste:** not sampled.

**Spore print:** white.

**Spores:** ellipsoid; 8.3 – 9.5 × 5.4 – 6.9  $\mu\text{m}$ , average  $8.8 \pm 0.35 \times 6 \pm 0.5 \mu\text{m}$ ,  $Q = 1.28 - 1.65$ , average  $Q = 1.47 \pm 0.13$ ; inamyloid, with dark (oil?) globules.

**Basidia:** clavate and 4 spored.

**Cheilocystidia:** ovoid to pyriform cells.

**Pleurocystidia:** absent.

**Pileipellis:** a cutis of repent hyphae 5 – 8  $\mu\text{m}$  wide; velar remains a mix of hyphae and ovoid cells.

**Habitat:** Growing in sand in wet Wallum woodland under *Melaleuca quinquinervia*.

**Notes:** This keys clearly to *A. umbrinella* in Wood, but has distinctly smaller and more ellipsoid spores. Wood remarks that this is a species complex and the Queensland material may well be different to that recorded elsewhere in Australia. This species is recognised by the combination of a grey buff cap, clavate stem with a ring and no volva, and inamyloid ellipsoid spores.

**Collections examined:** PL17313, Mt Coolum National Park, Pat Leonard, 6 March 2013.

