

## *Russula kalimna*



*Russula kalimna* © Sapphire McMullan Fisher

**Cap:** convex at first, then centrally depressed; 55 – 85 mm diameter; velutinate; brownish grey at first then violet grey (17B2, 17C2) with paler, velar like remains, forming an areolate layer; margin rimose; hardly peeling.

**Stipe:** cylindrical or tapering towards base; 40 - 65 × 15 – 22 mm; striate; white to cream, sometimes with a pink tint towards the base; chambered.

**Gills:** subdecurrent, white to pale cream, some gills anastomizing; lamellulae absent.

**Flesh:** white to pale cream, unchanging.

**Taste:** mild.

**Chemical reactions:** FeSo<sub>4</sub> on stipe: salmon; guaiac on stipe base: negative.

**Spore print:** white.

**Spores:** broadly ellipsoid; 6.5 – 8.6 × 4.8 – 8.1 μm, average 7.3 ± 0.5 × 6.2 ± 0.7 μm; Q = 1.1 – 1.4, average 1.2 ± 0.09; broad amyloid warts, cattenate ridges and some fine lines forming a partial reticulum; subhilar appendage absent; apiculus oblique.

**Basidia:** clavate; 35 – 50 × 8 – 10 μm; four spored.

**Cheilocystidia:** fusoid, thin walled, 45 – 60 × 6 – 10 μm; many rostrate.

**Pleurocystidia:** similar to cheilocystidia but less frequent.

**Dermatocystidia:** absent.

**Pileipellis:** a trichoderm to ixotrichoderm.

**Habitat:** under *Eucalyptus grandis* in Araucarian microphyl forest.

**Notes:** the areolate cap with violaceous to pink and pale violet grey colours and a white stem allow *R. kalimna* to be identified in the field..

**Collections examined:** SMF 2349, Doggrell Loop Track, Kin Kin, Sapphire McMullan Fisher, 5 Jan 2009; SMF 2373, Doggerel Loop, Kin Kin, Sapphire McMullan Fisher, 8 January 2010; CH027, Chermshire Hills Nature reserve, Brisbane, Pat Leonard, 31 Mar 2012.