

Entoloma cinereolamellatum, sp. nov.

[fig.: spores → p. 329; map → p. 440; plate → p. 481]

Pileus 20-100 mm latus, primum fusco-brunneus, deinde intermedio-brunneus vel in disco brunneo-aurantiacus decolorans; juventute lamellae distincte griseae; stipes 150 mm longus, in apice 15-25 mm latus, base 20-30 mm latus, maturitate scabrescens, longistrorsum striatus; et sapor et odor mitis; sporae isodiametrae; pigmentum distincte cytoplasmicum, in pileipelle massas continens.

Holotypus (DLL 6590) in "South of Highway 99, 5 miles from Chico, Tehama County, California, 18 November 1973" lectus, in HSC conservatus.

CHARACTERISTICS: pileus dark brown at first, bicolorous when mature with the disc medium brown or brownish orange; lamellae distinctly grey when young; stipe glabrous but becoming scabrous at apex with age, longitudinally striate; odor mild; spores isodiametric; pigmentation distinctly cytoplasmic and with pigment globules in the hyphae of pileipellis.

Pileus 20-100 mm broad, convex to broadly convex, not umbonate, shiny, not truly hygrophanous but fading rather distinctly on the disc, opaque, entirely dark brown (6F4) at first and typically becoming medium brown on the margin to (6-7D-E3-4) and orange-white (6A2) on the disc, glabrous when mature but at first covered with a light grey micaceous frost which disappears rapidly when drying; margin incurved and entire at all times; context 10-20 mm thick near the lamellar attachment, greyish brown beneath the pellicle but whitish elsewhere. **Lamellae** sinuate, close and narrow then somewhat subdistant and moderately broad (4-12 x 15-35 mm), distinctly grey when young; margin even and concolorous. **Stipe** 45-150 mm long, 15-25 mm broad at apex, 20-30 mm broad at base, typically slightly enlarged at base, equal, glabrous but becoming scabrous at apex with age, white becoming greyish with age and base staining light orange (5-6A4); basal mycelium not mentioned; context stuffed and white. **Taste** indistinct. **Odor** indistinct.

Spores 7.7-9.7 x 6.5-8.5 μm ; L' = 8.6-8.7 μm ; W' = 7.3-7.5 μm ; E = 1.10-1.35; Qr = 1.16-1.20; $c(r)$ = 2(12-20), 5-6-sided, distinctly angular. **Basidia** 43.5-54.7 x 9.1-11.8 μm ; E = 4.0-5.5; Qr = 4.83, 4-spored, easily separated. **Cheilocystidia** and **Pleurocystidia** absent. **Tramal hyphae of lamellae** 51.3-99.7 x 8.7-17.0 μm , with vascular hyphae. **Pileipellis** a cutis on entangled hyphae; **pileocystidia** cylindrical. **Tramal hyphae of pileus** not measured because elements did not revive well. **Stipitipellis** a very narrow cutis, 2-4 hyphae thick; **caulocystidia** absent. **Tramal hyphae of stipe** 84.6-185 x 8.8-18.5 μm , interspersed, with sinuous, abundant, and large vascular hyphae. **Vascular hyphae** abundant and quite large in pileal trama. **Clamps** abundant on all parts. **Pigmentation** cytoplasmic and easily visible under low power of microscope, mostly as globular, brownish areas within hyphae of pileipellis. **Chemical reactions** negative on all parts with guaiac, guaiacol, pyrogallol, and alpha-naphthol.

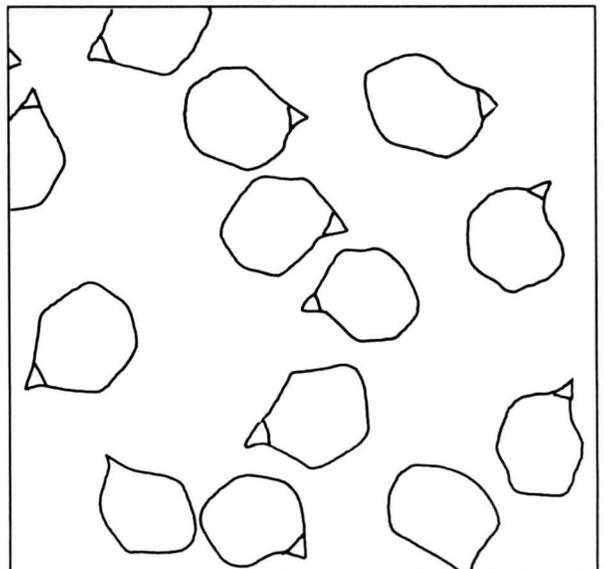
HABIT, HABITAT, DISTRIBUTION, AND FRUITING PERIOD: scattered and basidiomes often buried to the pileus in leaf humus beneath various species of oaks; montane northern California, mid-November.

MATERIAL STUDIED: CALIFORNIA: TEHAMA CO. DLL 6590, 6602.

E. cinereolamellatum is unique because of the bicolorous pileus, grey lamellae, small spores, and mild odor. *E. lividoalbum* and its forms are somewhat similar to *E. cinereolamellatum* but they can be differentiated from it by their white lamellae, a unicolorous yellow-brown pileus, and either a distinctly farinaceous odor or a mild odor.

spores ⇨

↑ *Entoloma cinereolamellatum* (DLL 6590)





Entoloma prunuloides (OKM 26972) p. 326



Entoloma lividoalbum forma *lividoalbum* (15031) p. 332



Entoloma pseudocostatum (2224) p. 330



Entoloma saepium (8903) p. 327



Entoloma cinereolamellatum (6590) p. 329



Entoloma speculum (2411) p. 336



Entoloma sericatum (9272) p. 344



Entoloma rhodopolium forma 8954 (8954) p. 349