

24. AGARICUS PRAECLARESQUAMOSUS FREEMAN, NOM. NOV.

≡ *Agaricus meleagris* J. Schaeffer. Zeitschr. f. Pilzk. 4: 28. 1925. [non *A. meleagris* Sow. ex Berkeley. Outl. Brit. Fung. 101. 1860].

Stature of carpophore placomycetoid; mature pileus convex, then expanded, to 11 cm diam, white, ivory, or gray, surface covered with fine gray to smoky black, appressed, fibrillose scales, disc solid gray, pileus drying yellow-cream with gray scales and brownish disc; dried flesh to 5 mm thick at disc, thinning to < 1 mm at margin. Lamellae (mature) deep chocolate brown, free, to 3 mm deep. Stipe bulbous, to 11 cm long, appearing fibrous, concolorous with pileus; ring superior, occasionally somewhat floccose below, cream to dull brown when dried.

Hyphae of pileus cuticle loosely interwoven, usually repent; pileocystidia fasciculate or scattered, 2.3-11.5 μ m diam, occasionally inflated, branched or unbranched; hyphae of pileus flesh 3.0-18.5 μ m diam, inflated, without clamp connections, thin-walled. Lamella trama irregular; hyphae variable, 2.0-20.0 μ m diam, occasionally inflated; basidia 5.5-7.0 x 13.0-23.0 μ m, 4-sterigmate, without clamp connections; cheilocystidia scattered, 7.2-12.2 μ m diam, broadly clavate to napiform. Hyphae of stipe surface above ring 2.3-14.3 μ m diam, parallel, tightly packed. Hyphae of ring 3.0-13.8 μ m diam. Cells of universal veil (stipe surface below ring) inflated, to 30.5 μ m diam, without clamp connections, thin-walled, hyaline.

Spores variable, (4.3)5.0-5.7(7.5) x 2.8-3.5(4.5) μ m, ellipsoid to ovoid; wall dark brown, 0.6 μ m thick; apiculus minutely papillate, hyaline.

Schaeffer macrochemical reaction: negative.

Observations: Although I have not examined European specimens, Pilát's (1951) and Schaeffer's descriptions and photographs are a sufficient circumscription of the taxon for identification of the species. The species is distinctive for its coloration and delicate nature of the scales on the pileus surface, resembling those of *A. pocillator*.

The species is found in mixed woods; its current North American range extends from Maryland to Florida. Edibility is unknown.

Specimens examined:

Florida: Gainesville, 18.v.43, det. A. H. Smith (as *Agaricus micromegethus*), no. F1963, F1962 (MICH).

Kentucky: Cumberland St. Pk. 22.x.55, det. B. F. Isaacs (as *A. sylvaticus*), no. 22192 (TENN).

Maryland: Riggs Woods, 17.viii.55, det. J. A. Stevenson

(as *A. abruptibulbus*), s.n. (BPI).

North Carolina: Highlands, 17.vii.55, det. B. F. Isaacs (as *A. sylvaticus*), no. 21885 (TENN).

Tennessee: GSMNP, 8/11/36, det. B. F. Isaacs (as *A. sylvaticus*), no. 9287 (TENN); GSMNP, 6/8/37, det. B. F. Isaacs (as *A. sylvaticus*), no. 10398 (TENN); GSMNP, 6/10/44, det. B. F. Isaacs (as *A. sylvaticus*), no. 16388 (TENN); GSMNP, Cades Cove, 12.viii.75, det. A. H. Freeman, no. 40332 (TENN); Univ. Tenn. woodlot, 1.x.75, det. A. H. Freeman, no. 40333 (TENN); Univ. Tenn. woodlot, 1.x.75, det. A. H. Freeman, no. 40334 (TENN); Univ. Tenn. woodlot, det. A. H. Freeman, no. 40335 (TENN); Univ. Tenn. woodlot, 5.x.75, det. A. H. Freeman, no. 40336 (TENN); Univ. Tenn. woodlot, 1.x.75, det. A. H. Freeman, no. 40337 (TENN); GSMNP, Roaring Fork, 29.viii.75, det. A. H. Freeman, no. 40338 (TENN); GSMNP, Elkmont, det. C. H. Kauffman (as *Psalliota placomyces*), s.n. (MICH); GSMNP, Elkmont, 3.ix.37, det. Hesler & Smith (as *A. placomyces*), s.n. (MICH).

25. *AGARICUS RUBRIBRUNNESCENS* MURRILL, *Mycologia* 14: 216. 1922.

TYPE SPECIMEN (holotype, explicit): NY, N.Y., 8.ix.16, coll. & det. W. A. Murrill, s.n. (!)

Stature of carpophore placomycetoid; mature pileus convex to expanded, to 8 cm diam (Murrill), white with reddish scales (Murrill), brown with darker brown scales when dried; dried flesh to 3 mm thick at disc, thinning to < 1 mm at margin. Lamellae (mature) deep chocolate brown, free, to 3 mm deep. Stipe equal to more or less bulbous, to 5 cm long, appearing fibrous; ring superior, gold when dried.

Hyphae of pileus cuticle interwoven, usually repent; pileocystidia fasciculate, 3.8-13.8 μ m diam, unbranched, brown; hyphae of pileus flesh 3.8-38.3 μ m diam, inflated, without clamp connections, thin-walled. Lamellae trama irregular; hyphae 3.0-21.5 μ m diam, occasionally inflated; basidia 4.5-7.0 x 15.3-21.5 μ m, 4-sterigmate, without clamp connections; cheilocystidia scattered, napiform, to 20.0 μ m diam. Hyphae of stipe surface above ring 3.0-27.5 μ m diam, parallel, tightly packed. Hyphae of ring 3.8-10.7 μ m diam. Cells of universal veil (stipe surface below ring) inflated, to 24.5 μ m diam, without clamp connections, thin-walled, hyaline.

Spores 4.5-5.5(6.0) x 3.0-3.8 μ m, ellipsoid or broadly ellipsoid; wall dark brown, 0.6 μ m thick; apiculus indiscernible or a hyaline spot in the spore wall.

Schaeffer macrochemical reaction: negative.

Observations: This species is remarkable for its conspicuously scaly surface and large napiform cheilocystidia. In the fresh condition, the scales are tufts of more or less