

## Matchmaker: Mushrooms of the Pacific Northwest

Below are written descriptions and images of fruiting bodies, mushrooms, of the fungal species in this ectomycorrhizal association. The information is from the web version of the Matchmaker: Mushrooms of the Pacific Northwest (MMPNW) created by the Canadian Forest Service and based on the Windows MMPNW version 1.3 by Ian and Eli Gibson.

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**LATIN NAME(S)** *Tricholoma caligatum* (Viv.) Ricken Die Blatterpilze: 331. 1915; *Armillaria caligata*

**ENGLISH NAME(S)** fragrant *Tricholoma*

**NOTES** features include appendiculate whitish dry cap with flattened cinnamon-brown to chestnut or wine-colored-brown fibrils which form scales and patches when old, thick white flesh, adnexed to adnate close white gills with brown stains on edges, stem that is white or pallid above the membranous ring and fibrillose scaly colored like cap below the ring, fragrant or spicy cinnamon odor, and white spore deposit; in western North America it typically has dark fibrils, the spicy-cinnamon odor of *Tricholoma magnivelare*, and mild taste; in eastern North America it is apt to be more cinnamon-colored with mild to fruity to pungent or disgusting odor and bitter taste; Breitenbach gives distribution as Europe, North America, Asia, included in PNW keys, reported from BC by Kinugawa & Goto, WA in Ammirati

**CAP** 4-12cm, broadly convex becoming flat with margin sometimes uplifted when old; "covered with flattened cinnamon-brown to chestnut or vinaceous-brown fibrils which typically separate and cluster in age to form small scales or patches, revealing the whitish to pinkish flesh beneath"; dry, (Arora), 4.5-7cm, convex with margin inrolled, becoming flat-convex when old with margin downturned to uplifted, low umbo; "dry, with radiating appressed to slightly recurved dark brown fibrils and soft floccules over a cream to buff background", (Shanks), 6-12cm, hemispherical becoming convex to flat, margin inrolled for a long time, somewhat wavy when old; concentrically zoned with coarse, red-brownish, somewhat fibrillose and appressed scales on cream background, margin with cream-whitish fibrils, attached to stem by cortinate veil when young, (Breitenbach), margin may be hung with veil remnants, (Phillips)



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**FLESH** thick; white, (Arora), white in cap and stem, (Shanks), thick, whitish to cream, (Breitenbach)

**GILLS** adnexed to adnate, rarely slightly decurrent, close; white with brown stains on edges, (Arora), sinuate, close, thin; white, developing orange-brown spots when old, (Shanks), slightly notched-adnexed, 90-110 reach stem, narrow; white to cream-yellowish; edges smooth, (Breitenbach), adnate, close, narrow to moderately broad, white, staining brown with age, (Phillips)

**STEM** 4-9cm x 1-3cm, more or less equal, solid, firm; white or pallid above ring; fibrillose or scaly below ring with same colors as cap, (Arora), 8-12cm x 1-2cm, equal or narrowing towards base, solid; above the ring silky fibrillose with faint belts of recurved fibrils, below the ring with belts or patches of appressed dark brown fine scales over a cream to pale tan background, much like cap surface, fading to grayish brown when old, (Shanks), 10-15cm x 1.5-3.0cm, equal or narrowing toward base, firm, solid; with zones of brown scales on a cream yellow background below the ring, smooth and whitish-pruinose above the ring, (Breitenbach)

**VEIL** "membranous, sheathing the stalk, forming a distinct flaring ring which collapses in age, underside colored like cap, upper surface white", (Arora), ring membranous, appressed or flaring upward, whitish becoming pale brown when old, (Shanks), upper third with a fibrillose-membranous ring or a more or less distinct ring zone, margin attached to stem by cortinate veil when young, (Breitenbach)

**ODOR** variable, in western North America typically has spicy-cinnamon odor or *Tricholoma magnivelare*, in eastern North American it is more apt to have mild to fruity to pungent or disgusting odor, (Arora), spicy, like cinnamon, (Shanks), fruity to flowery but rather unpleasant, (Breitenbach for Europe)

**TASTE** mild to nutty, bitter, or disagreeable, (Arora), extremely bitter, collections with pleasant taste may be a different, possibly undescribed taxon, (Shanks), bitterish and somewhat unpleasant, (Breitenbach for Europe)

**EDIBILITY** edible and the forms that are not disagreeable in taste or odor said to be as good as *Tricholoma magnivelare*, (Arora)

**HABITAT** solitary to scattered or in groups on ground in woods, (Arora), solitary to gregarious with conifers, (Shanks), solitary to gregarious in coniferous forests under *Pinus* (pine), more rarely *Abies* (fir) or *Picea* (spruce), (Breitenbach for Europe), under hardwoods, particularly oak in eastern North America, under conifers in western North America, (Phillips)

**SPORE DEPOSIT** white (Arora)

**MICROSCOPIC** spores 5-8 x 4-5.5 microns, elliptic, smooth, inamyloid, (Arora); spores 5.3-7.2 x 4.3-6.2 microns, broadly elliptic to nearly round, smooth, inamyloid; basidia 4-spored, 28-32 x 6.24-7.2 microns, cylindric to clavate; pleurocystidia and cheilocystidia absent; clamp connections absent, (Shanks), spores 7.2-8.8 x 5.2-6.4 microns, broadly elliptic, smooth, with drops; basidia 4-spored, 30-40 x 7-8.5 microns, slenderly clavate; pleurocystidia and cheilocystidia absent; no clamps on cap cuticle or basidia, (Breitenbach)

**NAME ORIGIN** means "with foot covered", or 'booted'

**SIMILAR** magnivelare but cinnamon-brown to purple-brown fibrils on the cap and stem, may have same odor as magnivelare

**SOURCES** Shanks(2), Breitenbach(3)\*, Arora\*(as Armillaria), Phillips\*, Lincoff(2)\*, Lincoff(1)\*, Kibby\*, Courtecuisse\*, Bessette(2)\*, Kinugawa(1), Ammirati

**FAMILY** Tricholomataceae of Order Agaricales