

## 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)** *Micromphale perforans* (Hoffm.:Fr.) S.F.Gray; *Marasmius perforans* (Hoffm.:Fr.) Fr.

**NOTES** features include small size, whitish to pinkish brown grooved cap, adnate whitish to cap-colored gills, tough brown to blackish stem that is pinkish to ochraceous at top, strong odor of putrid water, and growth on conifer needles; found at least WA

**CAP** 0.8-1.2cm, convex becoming flat and slightly umbonate, whitish turning reddish; with striations, (Lincoff), 0.8-1.7cm, convex to flat, center depressed, margin sharp; flesh-brownish when moist, beige when dry; shiny when moist, dull when dry, smooth, radially furrowed, center slightly scurfy, (Breitenbach), 0.5-1.5cm, whitish to very pale brown; sulcate (grooved), (Hansen), 0.5-1cm, domed, twisted; flesh-brownish; wrinkled, (Moser)

**FLESH** virtually non-existent (Lincoff), thin and membranous; whitish, (Breitenbach)

**GILLS** adnate, fairly crowded, connected by veins; whitish (Lincoff), broadly adnate, 14-17 reach stem, 3-7 subgills between each pair of gills, broad; light beige to flesh-colored; edges smooth, (Breitenbach), rather distant; cap-colored, (Moser)

**STEM** 2-3cm long and about 0.1cm wide, tough; brown turning blackish, pinkish at top; velvety, (Lincoff), 1.3-3.0cm x 0.08-0.12cm, cylindric, hollow, elastic; black-brown, top paler to whitish; tomentose from small tufts of hairs, (Breitenbach), 3-6cm x 0.05-0.1cm, flattened at top, narrowing downward; shining black except at the pale top, (Hansen), ochraceous at top, otherwise black-brownish; fine small hairs visible under microscope, (Moser)

**ODOR** strong of putrid water, with a hint of garlic, (Lincoff), cabbage to garliclike, mild, (Breitenbach)

**TASTE** strong of putrid water, with a hint of garlic, (Lincoff), cabbage to garliclike, mild, (Breitenbach)

**EDIBILITY** no value (Lincoff)

**HABITAT** on conifer needles, one or two fruiting bodies per needle, (Lincoff for Europe), sometimes solitary, but usually caespitose (tufted), nor rarely forming expanses, in spruce forests on needle litter, usually on individual needles, (Breitenbach for Europe), on needles of *Picea*, one specimen on one needle, (Hansen for Europe), on damp spruce needle humus, often on needles, (Moser for Europe), insititious on needles of spruce and fir (Desjardin)

**SPORE DEPOSIT** white (Lincoff)

**MICROSCOPIC** spores 5.5-6 x 3 microns, lanceolate, smooth, (Lincoff), spores 5.7-8 x 2.8-4 microns, elliptic - tearshaped, smooth, with droplets; basidia 4-spored, 27-40 x 4.5-6.5 microns, slenderly clavate, with basal clamp; pleurocystidia and cheilocystidia 30-40 x 3-5 microns, fusiform to slenderly clavate; cap cuticle "of +/- parallel, in part branched hyphae 2.5-3.5 microns across, with epimembranal brownish pigmentation, walls somewhat gelatinized, some septa with clamps", (Breitenbach), spores 5-8 x 3-3.5 microns, illustration looks more or less narrow elliptic, (Hansen), spores 5.5-6 x 3 microns, smooth, inamyloid, acyanophilous, (Moser)

**NAME ORIGIN** means 'perforating', 'piercing through'

**SIMILAR** *Marasmius androsaceus* is odorless, has a horsehair-like stem, grows preferentially on conifer twigs, and develops rhizomorphs similar in appearance to stem, (Breitenbach)

**SOURCES** Breitenbach(3)\*, Lincoff(1) (as *Marasmius*)\*, Hansen, L.(2), Moser(1), Ammirati(5)

**FAMILY** Marasmiaceae of Order Agaricales