

## 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)** *Hebeloma sacchariolens* Quelet

**NOTES** characterized by strong sweet or fruity or aromatic odor; other features include white to brown cream cap that is often paler at the margin, adnate crowded narrow gills that are pallid then milky coffee-color, white to brown stem that is pruinose at top, and large lemon-shaped to almond-shaped warty spores; Wood(2) identified the chemical source of the odor as 2-aminobenzaldehyde, a major constituent in the fragrant scents of some flowers

**CAP** 2-8cm, "soon flattened; white to pale cream; dry to viscid when wet", (Phillips), 2-6cm, bellshaped then convex; "whitish, brown at disc, entire surface darkening with age"; "smooth, quite viscid in damp weather", (Lincoff), 2-8.5cm, ocher-gray-brown, margin sometimes paler; bald (except var. *tomentosum*), greasy, (Moser), 2-4.5cm, bellshaped, convex, often irregular; ochraceous buff at center, paler at margin, (Hansen), up to 4cm, uniformly colored or center dingy russet-ocher, margin pale cream; viscid or "as if iced", (Courtecuisse)

**FLESH** soft; white, (Phillips), yellowish, sometimes brownish-ochre, (Lincoff)

**GILLS** "crowded, narrow; pallid then milky-coffee color", (Phillips), adnate; whitish then brown-ocher, eventually rust; edge whitish, (Lincoff), slightly crowded (Hansen), ochraceous beige (Courtecuisse)

**STEM** 4-10cm x 0.4-1.0cm, equal, soft, fibrous; pallid, (Phillips), 4-5cm long, about 1cm wide, narrowing toward top; white then tinged with ochre or brownish starting at base; pruinose at top, fibrillose, (Lincoff), 4-9cm x 0.4-1.2cm, apex pruinose, (Moser), 2.5-6cm x 0.3-0.6(1.0)cm, white, base often slightly fusoid (spindle-shaped), up to 5cm long and 0.5cm wide, concolorous, (Hansen)

**ODOR** "strong, penetrating, very sweet and aromatic, like burnt sugar, orange blossom or fruit candy", (Phillips), distinctive, of orange blossom or caramel, (Lincoff), exceptionally sweetish, like fruit sweets, orange-blossom, etc., (Moser)

**TASTE** sweetish (Lincoff), bitter (Courtecuisse)

**EDIBILITY** unknown (Phillips)

**HABITAT** gregarious under pine (Phillips), in woodland, or sometimes in grassland, (Lincoff), damp places, with alders or willows, (Moser for Europe), hardwood forests, under shrubs, (Hansen for Europe), hardwoods, not especially favoring damp sites (Courtecuisse for Europe)

**SPORE DEPOSIT** pale brown (Phillips)

**MICROSCOPIC** spores 12-17 x 7-9 microns, lemon-shaped, warty, (Phillips), spores 12-17 x 7-9 microns, elliptic, finely speckled, (Lincoff), spores 12-17 x 7-9(9.8) microns, almond-shaped to lemon-shaped; cystidia capitate, (Moser), , spores 10.5-14(16) x 6.5-7.5 microns, almond-shaped, slightly rugulose (wrinkled) to almost smooth; pleurocystidia absent, cheilocystidia cylindrical to clavate, (Hansen)

**NAME ORIGIN** means "smelling of sugar" (Lincoff)

**SOURCES** Phillips\*, Lincoff(1)\*, Courtecuisse\*, Moser(1), Hansen, Wood(2)

**FAMILY** Bolbitiaceae of Order Agaricales