

Mycena truncosalicicola – a new species of *Mycena* from Britain

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Reid D.A. (1996): *Mycena truncosalicicola* – a new species of *Mycena* from Britain. – *Czech Mycol.* 48: 261–263

The new taxon, *Mycena truncosalicicola* collected on a standing trunk of *Salix caprea*, from the western part of the British Isles, is described. Diagnostic features include the lignicolous habit, the minute size of the pure white fruit bodies, the presence of apically diverticulate cheilocystidia and the amyloid, ellipsoid to ovoid spores.

Key words: *Mycena truncosalicicola*, new species, Britain.

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Popisuje se nový taxon *Mycena truncosalicicola*, který byl sebrán na stojícím kmenu *Salix caprea* v západní části Britských ostrovů. Diagnostické znaky zahrnují lignikolní výskyt, drobnou velikost plodnic a jejich čistě bílou barvu, dále přítomnost cheilocystid s prstovitými výběžky a amyloidní, elipsoidní až vejčité výtrusy.

Mycena truncosalicicola Reid, spec.nov.

Sporophora minuta, omnino alba. Pileus in vivo 1.25–1.5 mm diam., laevis, campanulatus, sine pellicula viscida; in sicco cremeo-albus sed ad centrum leviter bubalino-brunneus, et superficie saepe radialiter striata vel conspicue radialiter rugosa. Lamellae ascendentes, late adnatae. Lamellulae non profundae, inconspicuae. Stipes in vivo usque 3 mm longus, 0.3 mm latus, laevis, basi ad substratum per fibrillas albas radiantes affixus; in sicco pallide griseo-albus sed basin versus griseo-brunneus. Hyphae pileipellis 2.7–5.4 μm latae, tenuitunicatae, hyalinae, septatae, fibulatae, diverticulis brevibus, simplicibus, 1.8 \times 0.9 μm metientibus dense ornatae. Hyphae corticatae stipitis 1.8 μm latae, tenuitunicatae, hyalinae, fibulatae, diverticulis plerumque simplicibus, cylindricis, 1.8–5.0 \times 0.9–1.3 μm metientibus ornatae. Hyphae in tramis lamellarum iodo vivescentes, tenuitunicatae, hyalinae, fibulatae, nonnullae inflatae usque 20 μm diam. Cheilocystidia 16–19 \times 9–11 μm tenuitunicata, hyalina, clavata vel pyriformia, apicem versus diverticulis plerumque simplicibus, cylindricis, 1–5 \times 1 μm metientibus conspicue ornata. Pleurocystidia carentia. Basidia 25.0–29.0 \times 7.5–8.0 μm , tenuitunicata, hyalina, clavata, quadrispora. Sporae 6.5–8.5 \times 4.5–6.0 μm , tenuitunicatae, hyalinae, amyloideae, late ellipsoideae vel ovoideae, raro subglobosae. In truncis erectis *Salicis capreae*, Llynclys, Shropshire, Anglia, 27.X. 1994, coll. D.A. Reid (Holotypus: in L).

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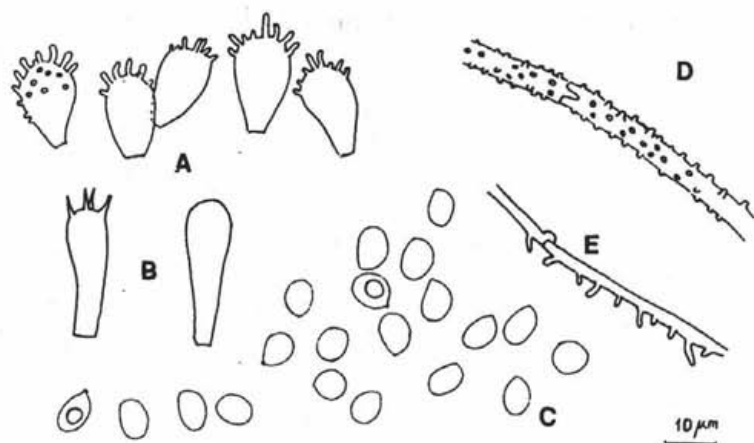


Fig. 1 *Mycena truncosalicicola* Reid. A. Cheilocystidia. B. Basidia. C. Spores. D. Hyphae of the pileipellis. E. Hyphae of the cortical layer of the stipe.

Fruit-bodies minute, entirely white in the fresh state. Pileus 1.25–1.5 mm diam. smooth, campanulate, lacking a separable viscid pellicle, in the dried state creamy-white with a slight buffy-brown tint at the disc, often becoming conspicuously radially wrinkled, and some pilei appearing striate. Lamellae ascending, broadly adnate, gill-edge non-gelatinized, concolorous with the gill-face; lamellules, very shallow, inconspicuous. Stipe to 3 mm long, 0.3 mm wide, smooth, attached to the substrate by white radiating fibrils; when dry, pale greyish white, becoming greyish brown toward the base. Hyphae of pileipellis 2.7–5.4 μm wide, thin-walled, hyaline, densely ornamented with short simple diverticula, about $1.8 \times 0.9 \mu\text{m}$, and with clamp-connexions at the septa. Hyphae of the cortical layer of the stipe 1.8 μm wide, thin-walled, hyaline with clamp-connexions at the septa, and ornamented with diverticula measuring $1.8\text{--}5.0 \times 0.9\text{--}1.3 \mu\text{m}$. Hyphae of the gill trama vivescent in Melzer's solution, thin-walled, hyaline, with clamp-connexions, some inflated to 20 μm diam. Cheilocystidia $16\text{--}19 \times 9\text{--}11 \mu\text{m}$, thin-walled, hyaline, clavate to pyriform, bearing prominent apical, mostly simple diverticula, measuring $1\text{--}5 \times 1 \mu\text{m}$. Pleurocystidia not seen. Basidia $25.0\text{--}29.0 \times 7.5\text{--}8.0 \mu\text{m}$, thin walled, hyaline, clavate, with four sterigmata. Spores $6.5\text{--}8.5 \times 4.5\text{--}6.0 \mu\text{m}$, thin walled, hyaline, amyloid, varying from broadly ellipsoid to ovoid, or rarely subglobose.

On standing trunk of *Salix caprea*, Llyncllys, Shropshire, Britain, 27.X.1994, coll. D.A. Reid (Holotype in L)

Observations: The collection described above has been studied by Dr R.A. Maas Geesteranus, who is of the opinion that it represents an undescribed taxon belonging to *Mycena* Section *Polyadelphia* Sing. ex Maas G.

Following the key to species of section *Polyadelphia* published by Maas Geesteranus (1986), the new taxon would key to *M. quercus-ilicis* Kühn., by virtue of the

lack of pink, purplish or violaceous tints to the fruit-body. However, the new taxon differs from *M. quercus-ilicis* in: habit (i.e. not growing on leaves of *Quercus*), in that the fruit-body is pure white when fresh (not grey becoming white), the pileus is smooth (not granular), the stipe is not insititious, and there are no conspicuous inflated terminal cells to the hyphae of the pileipellis.

A c k n o w l e d g e m e n t s

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R E F E R E N C E S

- MAAS GEESTERANUS, R.A. (1986): Conspectus of the Mycenas of the Northern Hemisphere. 6. Sections Polyadelphia and Saetulipedes - Proc. K. Ned. Akad. Wet. (ser.C) 89: 159-182