

57. *Marasmiellus tricolor* (Alb. & Schw.)

Sing.

57a. var. *tricolor*

Fig. 58

Agaricus tricolor Alb. & Schw., *Conspect. fung.*: 228. 1805; *Agaricus tricolor* Alb. & Schw.: Fr., *Syst. mycol.* 1: 166. 1821; *Marasmius tricolor* (Alb. & Schw.: Fr.) Kühner, *Botaniste* 25: 89. 1933; *Marasmiellus tricolor* (Alb. & Schw.) Sing., *Pap. Mich. Acad. Sci.* 32 [1946]: 128. 1948; *Micromphale tricolor* (Alb. & Schw.: Fr.) Honrubia, *Crypt. Mycol.* 5: 58. 1984. *Marasmiellus tricolor* f. *americanus* Singer, *Pap. Mich. Acad. Sci.* 32 [1946]: 128. 1948. *Agaricus languidus* Lasch, *Linnaea* 3: 385. 1828; *Marasmius languidus* (Lasch) Fr., *Epicr.*: 379. 1838; *Marasmiellus languidus* (Lasch) Singer, *Lilloa* 22: 300. 1951. *Marasmius tenuatus* Britz., *Ber. Naturh. Ver. Augsburg* 31: 173. 1894 (Hymenomycetes Südbayerns 10). *Omphalia vestita* Peck, *Bull. Torrey Bot. Club* 34: 345. 1907. *Marasmius pruinatus* Rea, *Trans. Br. mycol. Soc.* 5: 435. 1916.

Excluded: *Marasmius languidus* sensu Kühn. & Romagn., *Fl. anal. Champ. sup.*: 86. 1953 (= *M. vaillantii*).

Type-specimens: not preserved. Type-locality: Germany.

Selected icones: Cetto, *Funghi Vero* 5, pl. 1881. 1989; Singer & Hausknecht, *Pl. Syst. Evol.* 170(3/4): 135, fig. 2. 1990 (as *M. tricolor* f. *americanus*).

Selected literature: Kühner, *Botaniste* 25: 89. 1933; Illona & al., *Bol. Soc. micol. Madrid* 13: 107. 1988; Noordeloos, *Coolia* 26: 37-39, fig. 3. 1983; Noordeloos, *Persoonia* 13: 256. 1987; Redhead, *Mycologia* 78: 524-525. 1986; Singer & Hausknecht, *Pl. Syst. Evol.* 170(3/4): 135, fig. 2. 1990 (as *M. tricolor* f. *americanus*).

Description: Pileus 2-11 mm broad, convex, usually with small, conical papilla, expanding with age to plano-convex or applanate, with involute margin, not hygrophanous, not translucently striate, white or cream-coloured, minutely pruinose or felted under lens, later sometimes more or less appressedly tomentose or glabrescent. Lamellae distant, $L = 10-17$, $l = 0-2$, broadly adnate to deeply decurrent, triangular, or arcuate, white, cream-coloured or pink, with entire, concolorous edge. Stipe 8-20 x 0.5-1.0 mm, cylindrical, sometimes broadened towards base, someti-

mes tapering towards base, entirely sordid white at first, then becoming brown or black in lower part, pruinose to tomentose all over. Context thin, concolorous with surface. Smell and taste indistinct.

Spores 8.5-12.5 x 3.5-6.0 μm , $E = 1.5-2.5$, $Q = 1.8$, ellipsoid to narrowly ellipsoid, or pip-shaped. Basidia 25-40 x 8.0-11 μm , 4- and 2-spored, clamped. Basidioles 19-35.5 x 4.5-11.5 μm , cylindrical, clavate, clamped. Lamellar edge fertile or heterogeneous. Cheilocystidia absent, or very sparsely present, 29-40 x 5.5-7.0 μm , irregularly clavate with one or more rounded, clavate or club-shaped apical projections, and sometimes with poorly developed Rameales-structure in basal part. Hymenophoral and pileitrama irregular, made up of cylindrical, hyaline, up to 12 μm wide hyphae. Pileipellis a cutis of inflated hyphae, 2.0-15 μm wide with strongly developed Rameales-structure, viz. ascending, inflated terminal elements with numerous finger- and bladder-like excrescences, with pale yellow not encrusted walls. Caulocystidia numerous along whole length of stipe, about 30-120 x 4.0-15 μm , subclavate, subcylindrical, coralloid and with Rameales-structure, mostly in lower part and rounded-clavate in apical part. Clamps abundant in all tissues.

Chemical reactions: no part of basidiocarp dextrinoid.

Ecology: On roots of grass and grass-debris in grasslands of grassy spots.

Distribution: Rare and wide-spread. Known to occur in Europe and North-America. Summer - Autumn.

Phenology: (June) July - September.

Collections examined:

CZECH REPUBLIC: BOHEMIA: Mnichovice, Aug. 1915, J. Velenovský (PRM); MORAVIA: Ostrava, Hrabůvka, 27 July 1970, M. Svrček & J. Veselský (PRM). **NETHERLANDS:** prov. Flevoland, Zuidelijk Flevoland, Zeewolde, Nijkerkerweg, 19 Aug. 1992, G.C.N. van Zanen (L); prov. Noord Holland, Isl. Texel, Mokbaai, 6 June 1992, M. Groenendaal (L); prov. Zuid Holland, Alphen aan den Rijn, Zegersplas, 24 July 1988, C. Uljé (L); prov. Gelderland, Winterswijk, Korenburgerveen, 16 July 1952, H.S.C. Huijsman (L); prov. Noord Brabant, Hatert, 29 July 1972, G.A. de Vries (L); Groesbeek, 1 June 1937, A.C.S. Schweers (L); Dorst, 23 Sept. 1989, J. Gelderblom (L). **SWEDEN:** Västergötland, Björketop parish, Rävlanda, 13 Aug. 1939, T. Nathorst-Windahl, in: Lundell & Nannfeldt, *Fungi exs. suecici*, No. 1158 (PRM).