

The genus *Toментella*

Key from Franck Dämmrich

Toментella- key of european species

- A. Hyphae clamped** 1
- B. Clamps absent or occasionally present** 36
- 1a. Cystidia present 2
- 1b. Cystidia absent 8
- 2a. Cystidia hyphoid 55-95 x 3-4 μm , growing from subiculum and rhizomorphs
hymenophore hazel- brown to olive-brown, smooth to granulose
margin byssoid with brownish dimitic rhizomorphs
spores irregular, 8,5-10 μm
Toментella atroarenicolor *Nikol. 1970*
- 2b. Cystidia acuminate, capitate or clavate 3
- 3a. Cystidia acuminate (basally widened, rarely hyphoid) 4
- 3b. Cystidia capitate 5
- 3c. Cystidia clavate 6
- 4a. Hymenophore hazel- brown, granulose
cystidia somewhat distended base and tapering towards the slightly expanded apices
often apical encrusted with brown deposits
some spores reddish brown in KOH
Toментella subtestacea (*Bourd. & Galz.*) *Svrcek 1958*
- 4b. Hymenophore greyish- green, smooth to granulose, mucedinoid
cystidia apical slightly incrustated
Toментella galzinii *Bourd. 1924*
- 5a. Cystidia pale brownish to greenish
basidiocarps separable, dimitic rhizomorphs present
hymenophore yellowish- brown to olive- brown
Toментella pilosa (*Burt*) *Bourd. & Galz. 1924*
- 5b. Cystidia hyaline
basidiocarps adherent, without rhizomorphs
hymenophore greyish- green to olive- brown
Toментella viridula (*Bourd. & Galz.*) *Svrcek 1958*
- 6a. Basidiocarps separable, rhizomorphs present
hymenophore greyish- brown to hazel- brown, smooth
subicular hyphae brownish, thickwalled
Toментella muricata (*Ellis & Everh.*) *Wakef. 1962*

- 6b. Basidiocarps adherent, rhizomorphs absent
subicular hyphae hyaline and thinwalled 7
- 7a. Spores irregular, partly lobed
Tomentella clavigera *Litsch. in Svrcek 1960*
- 7b. Spores regular globose to ellipsoid
subiculum thin to absent
subhymenial hyphae partly short celled and inflated
Tomentella subclavigera *Litsch. 1933*
- 8a. Spores up to 7 μm (without echinuli) 9
8b. Spores larger 7 μm (without echinuli) 14
- 9a. Spores small tubercular, globose 5-6 μm
hymenophore ferruginous- brown, smooth to hydroid
margin byssoid, dimitic rhizomorphs
Tomentella calcicola (*Bourd. & Galz.*) *M.J. Larsen 1967*
- 9b. Spores echinulate 10
- 10a. Basidia to 25 μm long, spores globose 4,5-5,5 μm
hymenophore brownish, smooth
subicular hyphae thin- to thickwalled
Tomentella griseoumbrina *Litsch. apud Lundell & Nannf. 1936*
- 10b. Basidia longer 30 μm , spores larger 5,5 μm 11
- 11a. Subicular hyphae thinwalled, hyaline to pale brownish 12
- 11b. Subicular hyphae thickwalled, brown, incrustated, up to 6 μm wide,
hymenophore greyish- brown to dark brown, granulose
spores partly irregular globose
Tomentella neobourdotii *M.J. Larsen 1968*
- 12a. Subiculum white
hymenophore pale brownish to greyish- brownish, smooth to granulose
spores globose to subglobose
Tomentella cinerascens (*Karst.*) *Hoehn. & Litsch. 1906*
- 12b. Subiculum brownish to ferruginous- brown, spores irregular 13
- 13a. Basidia and hyphae strong cyanescent (hyphae and basidia bluish- green to bluish-
black in KOH)
hymenophore blackish- brown
rhizomorphs distinct, margin and subiculum ferruginous- yellowish

Tomentella botryoides (<i>Schw.</i>) <i>Bourd. & Galz. 1924</i>	
13b. Basidia and hyphae not cyanescent, rhizomorphs absent hymenophore brownish, margin and subiculum same- coloured Tomentella sp. <i>FD 7548</i>	
14a. Spore ornaments bifurcate	15
14b. Spore ornaments not bifurcate	16
15a. Hymenophore hydroid, ferruginous- brown margin and subiculum same- coloured rhizomorphs dimitic spores brownish, subglobose 7-8 μm Tomentella crinalis (<i>Fr.</i>) <i>M.J.Larsen 1967</i>	
15b. Hymenophore smooth, tubercular or hydroid, greyish- brown margin byssoid, subiculum darker than hymenophore rhizomorphs monomitic spores subglobose, partly irregular, 8-10 μm Tomentella italica (<i>Sacc.</i>) <i>M.J.Larsen 1967</i>	
16a. Immaturity basidia vesicular to 20 μm wide, mature basidia up to 85 μm long hymenophore smooth, fawn basidiocarps compact spores irregular subglobose, 7-9,5 μm Tomentella terrestris (<i>Berk. & Broome</i>) <i>M.J.Larsen 1974</i>	
16b. Not with this combination of characters	17
17a. Spores subglobose or ellipsoid with regular outline	18
17b. Spores with irregular outline, often lobed	27
18a. Spores ellipsoid (lateral view)	19
18b. Spores subglobose (lateral view)	20
19a. Subicular hyphae hyaline, thinwalled subhymenial hyphae short celled and inflated spores 7- 9(10) μm long Tomentella ellisii (<i>Sacc.</i>) <i>Jülich & Stalpers 1980</i>	
19b. Subicular hyphae brown, thickwalled subhymenial hyphae not short celled and inflated spores 8-12 μm long, partly irregular Tomentella atramentaria <i>Rostr. 1894</i>	
20a. Subicular hyphae thinwalled	21
20b. Subicular hyphae thickwalled	22
21a. Hymenophore greyish- brown, tubercular, spores 8-11 μm	

basidiocarps separable, rhizomorphs present
subiculum white, margin yellow to white
Tomentella asperula (*P.Karst.*)*Hoehn. & Litsch. 1906*

21b.Hymenophore pale brown to brick, spores 7- 8,5 µm
(forms of *T.coerulea* 32a. and *T.lateritia* 32b. with more regular spores)

22a.Spores yellowish 23

22b.Spores brown 25

23a.Spores ornaments bifurcate, hymenophor ferruginous- brown,
apiculus not amyloid

Tomentella sp. FD 8792

23b.Spores ornaments not bifurcate 24

24a.Hymenophor ferruginous- brown,
apiculus amyloid

Tomentella bryophila (*Pers.*)*M.J.Larsen 1974*

24b.Hymenophor olivaceus greenish,
apiculus not amyloid

Tomentella viridescens (*Bres. & Torr.*)*Bourd. & Galz. 1928*

25a.Spores subglobose to ellipsoid, 7,5 - 9, 5 µm, partly irregular, echinuli up to 1,5 µm 26

25b.Spores globose to subglobose, 8,5 - 11 µm, pines up to 2,5 µm
Tomentella stuposa (*Link*)*Stalpers 1984*

26a.Subicular hyphae incrustated
Tomentella lapida (*Pers.*)*Stalpers 1984*

26b.Subicular hyphae not incrustated

Tomentella alpina *Peintner & Dämmrich 2011*

- 27a. Spores long echinulate up to 2,5 μm , hymenophore smooth, fawn to rosy- buff,
 basidiocarps adherent, subiculum brownish
 margin byssoid to fimbriat, rhizomorphs present
Tomentella testaceogilva *Bourd. & Galz. 1924*
 (similar is *Tomentella rhodophaea* Hoehn. & Litsch [echinuli up to 1,5 μm ,
 subiculum whitish], probably two different Taxa)
- 27b. Not with the above combination of characters 28
- 28a. Subhymenial hyphae to 8 (10) μm wide, partly short celled and inflated 29
- 28b. Subhymenial hyphae to 5,5 μm wide, regular 32
- 29a. Spores yellowish 30
- 29b. Spores brown 31
- 30b. Hymenophore ferruginous- brown
- Tomentella ferruginella** *Bourd. & Galz. 1924*
- 30a. Hymenophore bright- green to olive-brown, smooth to tubercular
Tomentella olivascens (*Berk. & Curtis*) *Bourd. & Galz. 1928*
 (in Europe found not yet)
- 31a. Spores rough tubercular- echinulate, 8-12 μm
 warts often bifurcate, mostly spores with oiltrops
 hyphae to 7 μm wide, margin often fimbriat, partly rhizomorphs present
Thelephora terrestris f. resupinata *Donk 1933*
 (Syn.: *Tomentella radiosa* (*Karst.*) *Rick 1934*)
 common
- 31b. Spores long echinulate, 7-9 μm , echinuli not bifurcate
 hyphae to 10 μm wide, inflated up to 15 μm wide
 margin undetermined, rhizomorphs absent
Tomentella sublilacina (*Ellis & Holway*) *Wakef. 1962*
 common
- 32a. Subiculum partly thin, rhizomorphs rare,
 basidia partly with reddish contents (examines in distilled water!)
 hymenial with amber- tinted adhering material, solving in KOH and partly
 cyanescent 33
- 32b. Subiculum and rhizomorphs distinct

- basidia not reddish in distilled water 34
- 33a. Hymenophore pale to dark brownish
Tomentella coerulea (*Bres.*)*Hoehn. & Litsch. 1907*
- 33b. Hymenophore brick
 subiculum thin, often absent
Tomentella lateritia *Pat. 1894*
- 34a. Basidia and hyphae cyanescent (hyphae and basidia partly bluish- green in KOH)
 hymenophore ferruginous- brown to olive- brown, granulose
 margin partly yellowish, rhizomorphs dimitic
Tomentella ferruginea (*Pers.*)*Pat. 1887*
 (Remarks: If hymenophore blackish- brown view *Tomentella botryoides* 13a.)
- 34b. Basidia and hyphae not cyanescent 35
- 35a. Hymenophore pale brownish with greenish or reddish tints, granulose, margin
 byssoid, ferruginous- brown, rhizomorphs monomitic or rarely dimitic
Tomentella punicea (*Alb. & Schw. : Fr.*)*Schroeter in Cohn 1889*
- 35b. Hymenophore ferruginous- reddish to chestnut-brown, smooth to tubercular,
 margin ferruginous- reddish, rhizomorphs dimitic
Tomentella umbrinospora *M.J.Larsen 1968*
- 36a. Spores ornaments bifurcate 37
 36b. Spores ornaments not bifurcate 38
- 37a. Hymenophore tubercular to hydroid, cinnamon brown
 spores slightly globose with short bifurcate ornaments, 6-8 μm
 with thickwalled up to 200 μm long tramal pseudocystidia
Tomentella fibrosa (*Berk. & Curtis*)*Köljalg 1995*
- 37b. Hymenophore smooth
 (cf. *Pseudotomentella*!)
- 38a. Spores brown 39
 38b. Spores hyaline (cf. *Tomentellopsis*!)
- 39a. Occasionally clamps present 40
 39b. All hyphae simple septate 41
- 40a. Clamps present only at subicular hyphae or absent, spores regular globose, 7-9 μm ,
 echinuli up to 3 μm
Tomentella spinosispora *Cizek 2004*

40b. Subicular hyphae and subhymenial hyphae occasionally clamps present
spores regular to irregular ellipsoid, 8-12 μm long, echinuli up to 1,5 μm
Tomentella cinereoumbrina (*Bres.*) *Stalpers 1993*

41a. Basidiocarps thick, crustose, margin usually byssoid to fimbriate, mostly on soil
Tomentella fuscocinerea (*Pers.: Fr.*) *Donk 1933*
(= *Thelephora fuscocinerea* *Pers.: Fr.*)

41b. Basidiocarps thin, tomentelloid, mostly on wood

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42a. Echinuli up to 2,5 μm , spores irregular ellipsoid to globose
basidiocarps mucedinoid
Tomentella badia (*Link*) *Stalpers 1975*

(if spores regular globose view 40a.)

42b. Echinuli up to 1,5 μm , spores regular ellipsoid
Tomentella cf. brunneofirma *M.J. Larsen 1967*