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**Key of European species of *Tomentella* incl. *Odontia***

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|--|----|
| <b>A. Hyphae clamped</b>   | 1  |
| <b>B. Clamps absent or occasionally present</b>  | 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<br><i>Tomentella atroarenicolor</i> 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<br><i>Tomentella subtestacea</i> Bourd. & Galz. 1924         |    |
| 4b. Hymenophore greyish-green, smooth to granulose, mucedinoid, cystidia apical slightly incrustated<br><i>Tomentella galzinii</i> Bourd. 1924   |    |
| 5a. Cystidia pale brownish to greenish<br>basidiocarps separable, dimitic rhizomorphs present, hymenophore yellowish-brown to olive-brown,<br><i>Tomentella pilosa</i> (Burt) Bourd. & Galz. 1924  |    |
| 5b. Cystidia hyaline,<br>basidiocarps adherent, without rhizomorphs, hymenophore greyish-green to olive-brown,<br><i>Tomentella viridula</i> Bourd. & Galz. 1924   |    |
| 6a. Basidiocarps separable, rhizomorphs present, hymenophore greyish-brown to hazel-brown, smooth, subicular hyphae brownish, thick-walled<br><i>Tomentella subpilosa</i> Litsch 1960<br>(similar to <i>T. muricata</i> , an American species)                         |    |
| 6b. Basidiocarps adherent, rhizomorphs absent,   |    |

- subicular hyphae hyaline and thin-walled 7
- 7a. Spores irregular, partly lobed  
*Tomentella clavigera* Litsch. 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 6  $\mu\text{m}$  (measurement without spines) 9
- 8b. Spores larger 10
- 9a. Spores 3-4  $\mu\text{m}$ ,  
hymenophore short-spined, rusty yellowish  
*Tomentella (Odontia) duemmeri* (Wakef.) M.J. Larsen 1974
- 9b. Spores tubercular, globose 5-6  $\mu\text{m}$ ,  
hymenophore ferruginous-brown, smooth to hydroid,  
margin byssoid, dimitic rhizomorphs  
*Tomentella (Odontia) calcicola* (Bourd. & Galz.) M.J. Larsen 1967
- 9c. Spores echinulate, globose 4,5-5,5  $\mu\text{m}$ , Basidia to 30  $\mu\text{m}$  long,  
hymenophore brownish, smooth,  
without rhizomorphs  
*Tomentella griseoumbrina* Litsch. 1936
- 10a. Spores ornaments bifurcate 11
- 10b. Spores ornaments not bifurcate 12
- 11a. Hymenophore hydroid, ferruginous brown,  
rhizomorphs dimitic,  
spores brownish, subglobose 7-8  $\mu\text{m}$   
*Tomentella (Odontia) crinalis* (Fr.) M.J. Larsen 1967
- 11b. Hymenophore tubercular or hydroid, rare smooth, greyish-brown,  
rhizomorphs monomitic,  
spores hyaline, subglobose, partly irregular 8-10  $\mu\text{m}$   
*Tomentella italica* (Sacc.) M.J. Larsen 1967
- 11c. Hymenophore smooth, ferruginous-brown, without rhizomorphs,  
*Tomentella* sp. FD 8792
- 12a. Immaturity basidia vesicular up to 20  $\mu\text{m}$  wide, mature basidia up to 85  $\mu\text{m}$  long,  
hymenophore smooth, fawn, basidiocarps compact,  
spores irregular subglobose 7-9,5  $\mu\text{m}$   
*Tomentella terrestris* (Berk. & Broome) M.J. Larsen 1974
- 12b. Not with this combination of characters 13

- 13a. Spores average 6-7  $\mu\text{m}$  (if hyphae short celled and inflated go to 30) 14
- 13b. Spores average larger 18
- 14a. Subicular hyphae thick-walled, brown, incrustated, up to 6  $\mu\text{m}$  wide, hymenophore greyish-brown to dark brown, granulose, spores partly irregular globose  
*Tomentella neobourdotii* M.J. Larsen 1968
- 14b. Subicular hyphae thin-walled 15
- 15a. Hymenophore greyish, brownish or ferruginous-yellowish 16
- 15b. Hymenophore whitish to yellowish or pale ochre  
*Tomentella ochraceo-olivacea* Litsch. 1933  
(Syn. *Tomentella fatrensis* Svrček 1958)
- 16a. Hymenophore greyish, smooth to granulose, spores globose to subglobose  
*Tomentella cinerascens* (P. Karst.) Hoehn. & Litsch. 1906
- 16b. Hymenophore brownish to ferruginous-brown, spores irregular, lobed 17
- 17a. Basidia and hyphae strong cyanescent (hyphae and basidia bluish-green, to bluish black in KOH), hymenophore blackish brown, rhizomorpha distinct, margin and subiculum ferruginous-yellowish  
*Tomentella botryoides* (Schwein.) Bourd. & Galz. 1924
- 17b. Basidia and hyphae not cyanescent, rhizomorpha absent, hymenophore brownish, margin and subiculum same coloured  
*Tomentella* sp. FD 7548
- 18a. Spores subglobose or ellipsoid, not lobed 19
- 18b. Spores with irregular outline, often lobed 28
- 19a. Spores ellipsoid (lateral view) 20
- 19b. Spores subglobose (lateral view) 21
- 20a. Subicular hyphae hyaline, thin-walled, subhymenial hyphae short celled and inflated, spores 7-9(10)  $\mu\text{m}$  long  
*Tomentella ellisii* (Sacc.) Jülich & Stalpers 1980
- 20b. Subicular hyphae brown, thick-walled, subhymenial hyphae not short celled and inflated, spores 8-12  $\mu\text{m}$  long, partly irregular  
*Tomentella atramentaria* Rostr. 1894

- 21a. Subicular hyphae thin-walled
- 21b. Subicular hyphae thick-walled 23
- 22a. Hymenophore greyish-brown, tubercular, spores 8-11  $\mu\text{m}$ ,  
basidiocarps separable, rhizomorphs present,  
subiculum white, margin yellow to white  
***Tomentella asperula*** (P. Karst.) Hoehn. & Litsch. 1906
- 22b. Hymenophore pale brown to brick, spores 7-8,5  $\mu\text{m}$   
(forms of *T. lateritia* 32a. and *T. coerulea* 33b. with more regular spores)
- 23a. Spores yellowish 24
- 23b. Spores brown 26
- 24a. Hymenophore olive-greenish  
***Tomentella viridescens*** (Bres. & Torr.) Bourd. & Galz. 1928
- 24b. Hymenophore ferruginous-brown 25
- 25a. Spores with long spines, regular globose 7-11  $\mu\text{m}$ ,  
apiculus amyloid  
***Tomentella byrophila*** (Pers.) M.J. Larsen 1974
- 25b. Spores with short spines, irregular globose to ellipsoid -8,5  $\mu\text{m}$ ,  
apiculus not amyloid  
***Tomentella ferruginella*** Bourd. & Galz. 1924
- 26a. Spores globose to subglobose, 8,5 -11  $\mu\text{m}$ , spines up to 3  $\mu\text{m}$ ,  
Subicular hyphae not incrustated  
***Tomentella stuposa*** (Link) Stalpers 1984 s. l.
- Spores 6,5 - 8  $\mu\text{m}$  cf. *Tomentella globosa* X. Lu, K. Steffen & H.S. Yuan 2018
- Spores 8 - 10  $\mu\text{m}$  *Tomentella stuposa* (Link) Stalpers 1984 s. str.
- Spores 10 - 13  $\mu\text{m}$  *Tomentella bresadolae* (Brinkmann) Höhn. & Litsch. 1908
- 26b. Spores subglobose to ellipsoid, 7,5-9, 5  $\mu\text{m}$ , partly irregular 27
- 27a. Subicular hyphae incrustated, spores spines up to 2  $\mu\text{m}$ , apiculus partly amyloid  
***Tomentella lapida*** s.l.  
(incl. *Tomentella fuliginea* und *Tomentella ramosissima*)
- 27b. Subicular hyphae not incrustated, spores with short spines  
***Tomentella alpina*** Peintner & Dämmrich 2011
- 28a. Spores with long spines up to 2,5  $\mu\text{m}$ , hymenophore smooth, fawn to rosy-buff,  
margin byssoid to fimbriat, rhizomorphs present  
***Tomentella testaceogilva*** Bourd. & Galz. 1924
- 28b. Not with the above combination of characters 29

- 29a. Subhymenial hyphae to 8 (10)  $\mu\text{m}$  wide, partly short celled and inflated 30
- 29b. Subhymenial hyphae to 5,5  $\mu\text{m}$  wide, regular 31
- 30a. Spores rough tuberculate-echinulate 8-12  $\mu\text{m}$ ,  
a few warts bifurcate, mostly spores with oildrops,  
hyphae to 7  $\mu\text{m}$  wide, margin often fimbriat, partly rhizomorphs present  
***Thelephora terrestris* f. *resupinata*** Donk 1933  
(Syn. ? *Tomentella radiososa* (P. Karst.) Rick 1934)
- 30b. Spores with long spines 7-9  $\mu\text{m}$ ,  
hyphae to 10  $\mu\text{m}$  wide, inflated up to 15  $\mu\text{m}$  wide,  
margin undetermined, rhizomorphs absent  
***Tomentella sublilacina*** (Ellis & Holw.) Wakef. 1960
- 31a. Subiculum partly thin, rhizomorphs rarely,  
basidia partly with reddish contents (examines in distilled water!)  
hymenial with amber-tinted adhering material, solving in KOH  
and partly cyanescent 32
- 31b. Subiculum and rhizomorphs distinctly,  
basidia not reddish in distilled water 34
- 32a. Hymenophore brick-red, not cyanescent  
***Tomentella lateritia*** Pat. 1894
- 32b. Hymenophore brownish 33
- 33a. Hymeniophora dark brown, distinctly cyanescent  
***Tomentella molybdaea*** Bourdot & Galzin 1924
- 33b. Hymenophore pale brownish, not cyanescent  
***Tomentella coerulea*** (Bres.) Hoehn. & Litsch. 1908
- 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 17a.)
- 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. & Schwein.) J. Schröt. 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  $\mu\text{m}$ ,  
with thick-walled up to 200  $\mu\text{m}$  long tramal pseudocystidia  
***Tomentella (Odontia) fibrosa*** (Berk. & Curtis) Køljalg 1996
- 37b. Hymenophore smooth  
(cf. *Pseudotomentella*!)
- 38a. Spores brown 38
- 38b. Spores hyaline (cf. *Tomentellopsis*!)
- 39a. Occasionally clamps present,  
subicular hyphae and subhymenial hyphae occasionally clamps present,  
spores regular to irregular ellipsoid, 8-12  $\mu\text{m}$  long, spines up to 1,5  $\mu\text{m}$   
***Tomentella cinereoumbrina*** (Bres.) Stalpers 1993
- 39b. All hyphae without clamps 40
- 40a. Spores regular globose 7–9  $\mu\text{m}$ , spines up to 3  $\mu\text{m}$   
***Tomentella spinosispora*** Cizek 2004  
(the type is described with clamps-bearing subicular hyphae,  
but now recognised as alien hyphae, E. Martini 2021)
- 40b. Spores ellipsoid or irregular globose 41
- 41a. Basidiocarps thick, crustose, margin usually byssoid to fimbriate, mostly on soil  
***Tomentella fuscocinerea*** (Pers.) Donk 1933  
(=*Thelephora fuscocinerea* Pers.)
- 41b. Basidiocarps thin, tomentelloid, mostly on wood 42
- 42a. Spores with spines up to 2,5  $\mu\text{m}$ , spores irregular globose,  
basidiocarps mucedinoid  
***Tomentella badia*** (Link) Stalpers 1975  
(if spores regular globose view 42a.)
- 42b. Spores with spines up to 1,5  $\mu\text{m}$ , spores regular ellipsoid  
***Tomentella*** cf. ***brunneofirma*** M.J. Larsen 1967