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

- spores size without ornaments
 - cyanescent- hyphae and basidia bluish-green to bluish black in KOH
- A- Hyphae clamped 1
B- Clamps absent or occasionally present 38
- 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
Tomentella 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
Tomentella subtestacea Bourd. & Galz. 1924
- 4b. Hymenophore greyish-green, smooth to granulose, mucedinoid, cystidia apical slightly incrustated
Tomentella galzinii Bourd. 1924
- 5a. Cystidia pale brownish to greenish basidiocarps separable, dimitic rhizomorphs present, hymenophore yellowish-brown to olive-brown,
Tomentella pilosa (Burt) Bourd. & Galz. 1924
- 5b. Cystidia hyaline, basidiocarps adherent, without rhizomorphs, hymenophore greyish-green to olive-brown,
Tomentella viridula Bourd. & Galz. 1924
- 6a. Basidiocarps separable, rhizomorphs present, hymenophore greyish-brown to hazel-brown, smooth, subicular hyphae brownish, thick-walled
Tomentella subpilosa Litsch 1960
(similar to *T. muricata*, 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 average < 6,5 μm 9
- 8b. Spores average > 6,5 μm 13
- 9a. Spores 3-4 μm,
hymenophore with short spines, rusty yellowish
Tomentella (Odontia) duemmeri (Wakef.) M.J. Larsen 1974
- 9b. Spores average 4,5-6,5 μm 10
- 10a. Spores tubercular, hymenophore ferruginous-brown,
smooth to hydroid, margin byssoid, rhizomorphs dimitic
Tomentella (Odontia) calcicola (Bourd. & Galz.) M.J. Larsen 1967
- 10b. Spores echinulate 11
- 11a. Basidiocarps adherent, rhizomorphs absent, hymenophore greyish brown
basidia up to 25 μm long
Tomentella griseoumbrina Litsch. apud Lundell & Nannf. 1936
- 11b. Basidiocarps separable, rhizomorphs present 12
- 12a. Hymenophore rosy brown, smooth
typical yellowish rhizomorphs present
Tomentella palliodocastanea X. Lu, Y.H. Mu & H.S. Yuan 2018
- 12b. Hymenophore greyish, granulose, rhizomorphs white
Tomentella cinerascens (P. Karst.) Hoehn. & Litsch. 1906
- 13a. Spore ornaments bifurcate, Hymenophore hydroid 14
- 13b. Spore ornaments not bifurcate or with a view of bifurcate warts
Hymenophore smooth to granulare 15
- 14a. Spores brown, slightly globose 7-8 μm, with short pines,
rhizomorphs dimitic
Tomentella (Odontia) crinalis (Fr.) M.J. Larsen 1967
- 14b. Spores hyaline, irregular subglobose, 8-10 μm
rhizomorphs monomitic
Tomentella italica (Sacc.) M.J. Larsen 1967
- 15a. Immaturity basidia vesicular up to 25 μm wide,

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|---|----|
| hymenophore smooth, fawn, basidiocarps compact, spores irregular subglobose 7-9,5 µm <i>Tomentella terrestris</i> (Berk. & Broome) M.J. Larsen 1974 | |
| 15b. Immaturity basidia clavate to utriform, < 15 µm wide | 16 |
| 16a. Spores average 6-7,5 µm (if hyphae short celled and inflated (if hyphae partly short celled and inflated go to 32a) | 17 |
| 16b. Spores average larger | 19 |
| 17a. Subicular hyphae thick-walled, brown, incrusting, up to 6 µm wide, hymenophore greyish-brown to dark brown, granulose, spores partly irregular globose, 6-8 µm <i>Tomentella neobourdotii</i> M.J. Larsen 1968 | |
| 17b. Subicular hyphae thin-walled, hyaline to pale brown | 18 |
| 18a. Basidia and hyphae strongly cyanescent, hymenophore blackish brown, rhizomorphs distinct, margin and subiculum ferruginous-yellowish <i>Tomentella botryoides</i> (Schwein.) Bourd. & Galz. 1924 (if rhizomorphs dimitic and hymenophore olivaceous brown comp. <i>T. ferruginea</i> 36a.) | |
| 18b. Basidia and hyphae not cyanescent, rhizomorphs absent hymenophore brownish, margin and subiculum same coloured, spores not bifurcate <i>Tomentella</i> sp. FD 7548 (? <i>Tomentella microspora</i> (P. Karst.) Höhn. & Litsch. 1906 ss. Ales Jirsa) | |
| 19a. Hymenophore whitish, yellowish or pale ochraceous to mustard yellow <i>Tomentella ochraceo-olivacea</i> Litsch. 1933 (Syn. <i>Tomentella fatrensis</i> Svrček 1958) | |
| 19b. Hymenophore pale to dark brown, olivaceous or rusty brown | 20 |
| 20a. Spores subglobose or ellipsoid, not lobed | 21 |
| 20b. Spores with irregular outline, mostly lobed | 0 |
| 21a. Spores ellipsoid (lateral view) | 22 |
| 21b. Spores subglobose (lateral view) | 23 |
| 22a. Subicular hyphae hyaline to pale brownish, thin-walled, subhymenial hyphae short celled and inflated, spores 7-10 µm long <i>Tomentella ellisii</i> (Sacc.) Jülich & Stalpers 1980 | |
| 22b. Subicular hyphae brown, thick-walled, subhymenial hyphae not short celled and inflated, spores 8-12 µm long, partly irregular <i>Tomentella atramentaria</i> Rostr. 1894 | |

- 23a. Subicular hyphae hyaline
- 23b. Subicular hyphae brown 25
- 24a. Hymenophore greyish-brown, tubercular, spores 8-11 μm ,
basidiocarps separable, rhizomorphs present,
subiculum white, margin yellowish to white
Tomentella asperula (P. Karst.) Hoehn. & Litsch. 1906
- 24b. Hymenophore pale brown to brick, spores 7-8,5 μm
(forms of *T. lateritia* 34a. and *T. coerulea* 35b. with more regular spores)
- 23a. Hymenophor rust-yellowish, spores yellowish-brown 26
- 23b. Hymenophor bright to dark brown or olive-greenish, spores brown 27
- 26a. Spores with long spines, globose 8-11 μm ,
apiculus amyloid
Tomentella bryophila (Pers.) M.J. Larsen 1974
- 26b. Spores with short spines, irregular subglobose up to 6-9 μm ,
apiculus not amyloid
Tomentella ferruginella Bourd. & Galz. 1924
- 27a. Hymenophore olive-greenish
Tomentella viridescens (Bres. & Torr.) Bourd. & Galz. 1928
- 27b. Hymenophor bright to dark brown 28
- 28a. Spores globose, 8 -11 μm , spines up to 3 μm ,
Subicular hyphae not incrustated
Tomentella stuposa (Link) Stalpers 1984 s. l.
-- Spores 6 - 8 μm *Tomentella* spec.
-- Spores 8 - 10 μm *Tomentella stuposa* (Link) Stalpers 1984 s. str.
-- Spores 10 - 13 μm *Tomentella bresadolae* (Brinkmann) Höhn. & Litsch. 1908
- 28b. Spores subglobose to ellipsoid, 7,5-9,5 μm , partly irregular 29
- 29a. Subicular hyphae incrustated, apiculus not amyloid, with spines up to 2 μm
Tomentella lapida (Pers.) Stalpers 1984
(similar *T. fuliginea* with amyloid apiculus and subicular hyphae not incrustated)
- 29b. Subicular hyphae not incrustated, with short spines, apiculus not amyloid
Tomentella alpina Peintner & Dämmrich 2011
(alpine species on *Salix herbacea*)
- 30a. Spores with long spines up to 2,5 μm , hymenophore smooth, fawn to rosy-buff,
margin byssoid to fimbriat, rhizomorphs present
Tomentella testaceogilva Bourd. & Galz. 1924
- 30b. Not with the above combination of characters 31
- 31a. Subhymenial hyphae to 8 (10) μm wide, short celled and inflated 32

- 31b. Subhymenial hyphae to 5,5 µm wide, regular 33
- 32a. Spores rough tuberculate-echinulate,
a few warts bifurcate, mostly spores with oil drops,
margin often fimbriat, partly rhizomorphs present
Tomentella radiosa(P. Karst.) Rick **1934**
(Syn. *Thelephora terrestris* f. *resupinata* Donk 1933)
- 32b. Spores with long spines 7-9 µm,
hyphae to 10 µm wide, inflated up to 15 µm wide,
margin undetermined, rhizomorphs absent
***Tomentella sublilacina* agg.**
- 33a. Subiculum thin, rhizomorphs rarely,
basidia partly with reddish contents (examines in distilled water!)
hymenial with amber-tinted adhering material, solving in KOH
and partly cyanescent 34
- 33b. Subiculum and rhizomorphs distinctly,
basidia not reddish in distilled water 36
- 34a. Hymenophore brick-red, not cyanescent
Tomentella lateritia Pat. 1894
- 34b. Hymenophore brownish 35
- 35a. Hymeniophore dark brown, distinctly cyanescent
Tomentella molybdaea Bourdot & Galzin 1924
- 35b. Hymenophore pale brownish, not cyanescent
Tomentella coerulea (Bres.) Hoehn. & Litsch. 1908 ss. M.J. Larsen
- 36a. Basidia and hyphae cyanescent,
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* 19a.)
- 36b. Basidia and hyphae not cyanescent 37
- 37a. 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
- 37b. Hymenophore ferruginous-reddish to chestnut-brown, smooth to tubercular,
margin ferruginous-reddish, rhizomorphs dimitic
Tomentella umbrinospora M.J. Larsen 1968
- 38a. Spores ornaments bifurcate 39
- 38b. Spores ornaments not bifurcate 40

- 39a. Hymenophore tubercular to hydroid, cinnamon brown, spores slightly globose with short bifurcate ornaments 6-8 μm , with thick-walled up to 200 μm long tramal pseudocystidia
Tomentella (Odontia) fibrosa (Berk. & Curtis) Kõljalg 1996
- 39b. Hymenophore smooth
(cf. *Pseudotomentella*!)
- 40a. Spores brown 41
- 40b. Spores hyaline (cf. *Tomentellopsis*!)
- 41a. Occasionally clamps present, subicular hyphae and subhymenial hyphae occasionally clamps present, spores regular to irregular ellipsoid, 8-12 μm long, spines up to 1,5 μm
Tomentella cinereoumbrina (Bres.) Stalpers 1993
- 41b. All hyphae without clamps 42
- 42a. Spores regular globose 7–9 μm , spines up to 3 μm
Tomentella spinosispora Cizek 2004
(the type is described with clamps-bearing subicular hyphae, but now recognised as alien hyphae, E. Martini 2021)
- 42b. Spores ellipsoid or irregular globose 43
- 43a. Basidiocarps thick, crustose, mostly on soil
Tomentella fuscocinerea (Pers.) Donk 1933
(= *Thelephora fuscocinerea* Pers.)
- 43b. Basidiocarps thin, tomentelloid, on wood 44
- 44a. Spores with spines up to 2,5 μm , spores irregular globose, basidiocarps mucedinoid
Tomentella badia (Link) Stalpers 1975
(if spores regular globose view 42a.)
- 44b. Spores with spines up to 1,5 μm , spores regular ellipsoid
Tomentella cf. ***brunneofirma*** M.J. Larsen 1967