

Astrothelium Eschw.
(TRYPETHELIACEAE)

After Harris, 1990, 1995

Rev. November 16, 1998

Thallus effuse, ecorticated or with a cartilaginous corticiform layer. Photobiont Trentepohlia. Perithecia compound, solitary or in pseudostromata; immersed in verrucae, often aggregated in small radiating groups, several hymenia with a common ostiole; Paraphyses branched and anastomosing, \pm thick-walled. Asci thick-walled. Spores 4-celled, lumina globose or lens-shaped. On bark.

Placed by Poelt under Pyrenulaceae.

1. **Ascomatal warts covered by thallus or black where exposed, K-.** Florida. (Trypethelium variolosum s. lato)
1. **Ascomatal warts with orange pigmented tips or containing orange or brownish pigments, K+ purple or reddish.** 2
 2. **Ascospores 10-celled, I+ violet, 90-110 x 22-28 μ m; pigment around ostiolar neck brown, K+ dull reddish; thallus UV-; hymenium not interspersed except in ostiolar neck.** Florida. A. diplocarpum Nyl. s. lato
 2. **Ascospores 4-celled, I-; pigment orange, K+ purple.** 3
3. **Thallus UV-, usually greenish or olivaceous, shiny; spores 23-30(-32) x 8-10(-12) μ m.** Florida. A. cinnamomeum (Eschw.) Mull. Arg.
3. **Thallus UV+ yellow (lichexanthone), pale tan, usually pruinose.** 4
 4. **Spores 21-28 x 7-9(-10) μ m.** Florida. A. galbineum Krempelh.
 4. **Spores (26-)28-35(-39) x 10-13 μ m.** Florida. A. versicolor Mull. Arg.

Literature

Harris, R. C. 1990. Some Florida Lichens.

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Awasthi. 19 . Microlichens of India, etc.