

EREMOTHECELLA

John A. Elix

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Eremothecella Syd., in H.Sydow & P.Sydow, *Ann. Mycol.* 15: 236 (1917); from the Greek *eremos* (solitary) and *thekella* (a small case or container), in reference to the scattered asci.

Type: *E. calamicola* Syd.

Thallus foliicolous, crustose, superficial, ecorticate, white, greenish grey to green or grey, dispersed or continuous; isidia and soredia absent. Prothallus present or absent. Photobiont *Phycopeltis*; cells rectangular or irregular, in radiating rows or forming \pm continuous or radiating plates. Medulla absent. Ascromata apothecioid, adnate, rounded to somewhat irregular, plane to slightly convex, brown to black, pruinose or not, sometimes appearing whitish when densely pruinose, usually minutely warted due to scattered emergent asci. Epithymenium pale yellow to dark brown. Hymenium colourless to pale brown, usually with dispersed asci. Hypothecium \pm well defined, narrow, pale to dark brown. Paraphyses branched and anastomosing, without distinct apical cells, 1.0–1.5 μ m thick. Asci of the *Arthonia*-type, 2–8-spored, ovoid to globose, stipitate. Ascospores narrowly to broadly clavate, 3–12-septate or submuriform, \pm macrocephalic, colourless, 15–75 \times 5–55 μ m. Conidiomata pycnidial, bisymmetrical, rounded to slightly irregular or elliptical, plane, rarely slightly emergent. Conidia long, filiform, multiseptate, (60–) 70–450 \times 1.0–2.5 μ m.

Eremothecella is a pantropical, foliicolous genus of nine species, three of which occur in Australia.

R.Santesson, Follicolous lichens I, A revision of the taxonomy of the obligately foliicolous, lichenized fungi, *Symb. Bot. Upsal.* 12(1): 1–599 (1952); E.Sérusiaux, Reinstatement of the lichen genus *Eremothecella* Sydow, *Syst. Ascomycet.* 11: 39–47 (1992); R.Lücking, Additions and corrections to the foliicolous lichen flora of Costa Rica. The family Arthoniaceae, with notes on the genus *Stirtonia*, *Lichenologist* 27: 127–153 (1995); R.Lücking, H.Streimann & J.A.Elix, Further new records of foliicolous lichens and lichenicolous fungi from Australasia, with an updated checklist for continental Australia, *Lichenologist* 33: 195–210 (2001).

- 1 Thallus dark greenish grey to green, P–; lichen substances absent **1. E. calamicola**
1: Thallus white, whitish grey to whitish green, P+ orange; cyclographin and norcyclographin present 2
2 Ascospores 3–5-septate; conidia 3–9-septate (*l.*) **2. E. cyaneoides**
2: Ascospores 9–13-septate; conidia 20–30-septate **3. E. macrocephala**