Pseudophloeospora eucalyptorum
Pseudophloeospora eucalyptorum Crous, Jacq. Edwards & Pascoe, sp. nov.

Etymology. Name refers to Eucalyptus, the plant genus from which this fungus was collected.

Classification — Incertae sedis, Xylariales, Sordariomycetes.

Leaf spots amphigenous, angular to irregular, medium to dark brown, 2–7 µm diam with raised border. Conidiomata pycnidial on host, in culture appearing more acervular to even sporodochial, brown, to 250 µm diam; wall of 3–6 layers of pale brown textura angularis. Conidiophores lining inner cavity, hyaline, smooth, subcylindrical, branched, 1–5-septate, 15–60 × 2.5–3.5 µm. Conidiogenous cells terminal and lateral, hyaline, smooth, tapering towards truncate apex, proliferating sympodially as well as inconspicuously percurrently at apex, 5–15 × 2–2.5 µm. Conidia hyaline, smooth, filiform, guttulate, flexuous, subcylindrical, widest in lower third, tapering to an acutely rounded apex, and truncate base, 1.5 µm diam, 3-septate, (30–)50–67(–75) × 2.5(–3) µm.

Culture characteristics — Colonies reaching up to 30 mm diam after 2 wk at 25 °C, with spreading, erumpent, folded surface; margins feathery, lobate, and moderate aerial mycelium. On MEA surface dirty white, with patches of pale mouse grey, reverse sienna with patches of luteous. On OA surface dirty white. On PDA surface sienna to luteous, reverse ochreous.


Notes — On ITS Pseudophloeospora eucalyptorum is 98 % (612/625) similar to Pseudophloeospora eucalypti (CBS 128212; GenBank HQ599592). Morphologically, the two species can be distinguished in that on average the conidia of P. eucalypti are larger, (60–)65–75(–80) × (1.5–)2(–2.5) µm (Crous et al. 2010b).

Colour illustrations. Australian winery; symptomatic Eucalyptus leaf, colony sporulating on OA, conidiophores and conidia. Scale bar = 10 µm.

Pedro W. Crous & Johannes Z. Groenewald, CBS-KNAW Fungal Biodiversity Centre, P.O. Box 85167, 3508 AD Utrecht, The Netherlands; e-mail: p.crous@cbs.knaw.nl & e.groenewald@cbs.knaw.nl
Ian G. Pascoe & Jacqueline Edwards, AgriBio Centre for AgriBiosciences, Department of Economic Development, Jobs, Transport and Resources, 5 Ring Road, LaTrobe University, Bundoora, Victoria 3083 Australia; e-mail: pascoeig@bigpond.net.au & jacky.edwards@ecodev.vic.gov.au