1. PaDIL Species Factsheet

Scientific Name:
*Coniothyrium zuluense* M.J. Wingf., Crous & T.A. Cout.
Anamorphic fungi

Common Name
Coniothyrium stem canker of Eucalyptus

Image Library
Australian Biosecurity

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- Department of Agriculture, Water and the Environment
- Department of Primary Industries and Regional Development, Western Australia
- Plant Health Australia
- Museums Victoria
2. Species Information

2.1. Details

**Specimen Contact:** Dr Jose R. Liberato - jose.liberato@nt.gov.au  
**Author:** Liberato JR & Pegg GS  
**Citation:** Liberato JR & Pegg GS (2006) Coniothyrium stem canker of Eucalyptus (*Coniothyrium zuluense*)  
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2.2. URL


2.3. Facets

**Status:** Exotic Regulated Pest - absent from Australia  
**Group:** Fungi  
**Commodity Overview:** Forestry  
**Commodity Type:** Timber  
**Distribution:** Central and South America, Africa, South and South-East Asia

2.4. Diagnostic Notes

**Symptoms:**

The pathogen causes small, necrotic spots on the young green stems of Eucalyptus, which later coalesce and form large cankers that eventually girdle susceptible trees and kill its top (Wingfield et al. 1997). Abundant kino exudation and formation of kino pockets in the xylem are caused by the disease (Gezahgne et al. 2003). The lesions restrict bark peeling prior to pulping (Roux et al. 2002).

**The fungus:**

Pycnidia single or aggregated, 2—15 µm in diameter, globose or depressed, 60—120 µm wide, exuding spores in dark brown masses; Conidiogenous cells annellidic, pale brown, smooth, doliiform to reinform, 4-8 x 2.5—3.5 µm. Conidia medium brown, thick-walled, smooth to verruculose, broadly ellipsoid, apex obtuse, base subtruncate to bluntly rounded, mostly 4.5—5 x 2—2.5 µm. Spermatia hyaline, rod-shaped, 3—4 x 1.5—2 µm (Wingfield et al. 1997).

Note: Additional information is given by Wingfield et al. (1997) and Van Zyl et al. (2002ab).

2.5. References

Marraro Acuña F. & Garran SM (2004) Detección de Kirramyces...
epicoccoides, Puccinia psidii y Coniothyrium zuluense agentes causales de enfermedades en eucalyptus spp.
en la zona de Concordia, Entre Ríos, Argentina. RIA 33: 135-148. Available online at
pathogenic characteristics of Coniothyrium zuluense isolates from different plantation regions in South Africa.
(2002b) Morphological and molecular relatedness of geographically diverse isolates of Coniothyrium zuluense
3. Diagnostic Images

Results Generated:
Wednesday, January 27, 2021