

PLATE CULTURE REPORT

Client	ABCD GOLF CLUB
Contact	Peter Kirby
Date Received	18/03/2020
Report Date	23/03/2020

Sample Name	
Sample ID	20200323_02150
Plant Variety	Couchgrass
Sample Condition	Good

SAMPLE NOTES

Plant tissue obtained from various sections across the race track.

Laboratory Procedures

- Plant tissue was extracted from the sample and used to inoculate potato dextrose agar (PDA) media.
- Media were incubated at 27°C for 5-7 days and resultant fungal colonies microscopically examined for a final diagnosis.

AGAR PLATE CULTURES

Number of Fungal Colonies: Plate average of 6 (Leaf tissue) & 7 (Root Tissue).

Colony Growth: Moderate sized dark green and large, white colonies present.

Additional Notes: Plant tissue was obtained from the foliage/thatch and root system.



PLANT PATHOLOGY REPORT

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PATHOGENS IDENTIFIED

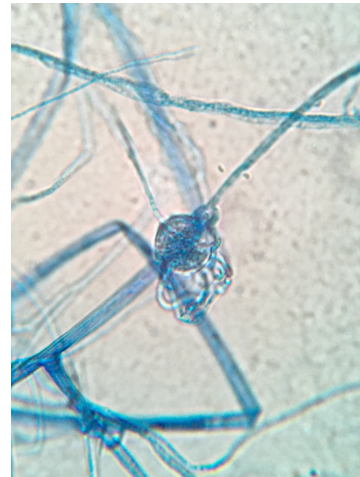
Common Name	Curvularia Blight
Scientific Name	Curvularia lunata
Spores Identified	Conidia
Severity	Very High



Relative Abundance



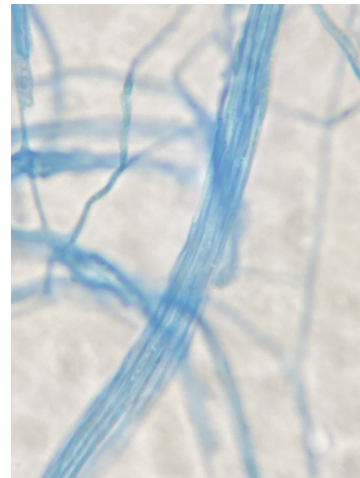
Common Name	Pythium
Scientific Name	Pythium spp.
Spores Identified	Hyphae, oospores
Severity	Moderate



Relative Abundance



Common Name	Couchgrass Decline
Scientific Name	Gaeumannomyces graminis var. graminis
Spores Identified	Runner hyphae branching at 45°
Severity	Moderate



Relative Abundance



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**SUMMARY****Pathogens Identified**

Common Name	Scientific Name
Curvularia Blight	<i>Curvularia lunata</i>
Pythium	<i>Pythium spp.</i>
Couchgrass Decline	<i>Gaeumannomyces graminis var. graminis</i>

Additional Comments:

Large numbers of *Trichoderma spp* colonies were cultured from the root tissue. Generally considered to be avirulent to beneficial plant symbionts, *Trichoderma* may suppress other fungi when co-cultured on agar. As a result, the root pathogen findings in this sample may be incomplete.

Disclaimer:

The aim of the pathology disease diagnosis section of this report is for a 48hour disease identification to help the turf manager understand any initial disease outbreaks happening currently, and for a management tool for best practices moving forward. By no means is it a definitive pathogen incubation/isolation report.