

# University of Colombo

## Department of Plant Sciences

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### Test Report

This report presents the results of a fungal identification study conducted on three agarwood stem samples provided for the detection of [REDACTED]

The samples submitted to the Department of Plant Sciences were subjected to the following procedures:

S. no.	Sample code	Tests performed
1	CH01	Detection of the presence of [REDACTED] in agarwood stem samples.
2	CI01	Culturing (pieces and macerates) on potato dextrose agar, isolation and light microscopy to identify the fungal growth
3	CD01	

### Methodology

The internal tissues from all three stem samples were first cultured on Potato Dextrose Agar (PDA) plates supplemented with antibiotics.

Two methods were used:

- Direct plating of stem pieces
- Spread plating using a suspension prepared from macerated stem pieces

### Results

Sample Code	Observation
CH01	[REDACTED] was not observed
CI01	[REDACTED] was not observed, [REDACTED] growth was observed (Fig. 1, 2, 5 and 6).
CD01	[REDACTED] was not observed, [REDACTED] growth was observed (Fig. 3, 4, 7 and 8).

Observation- Colony morphology



**Figure 1:** Macro morphology of fungal culture isolated from the CI01 sample (Upper surface)



**Figure 2:** Macro morphology of fungal culture isolated from the CI01 sample (Lower surface)



**Figure 3:** Macro morphology of fungal culture isolated from the CD01 sample (Upper surface)



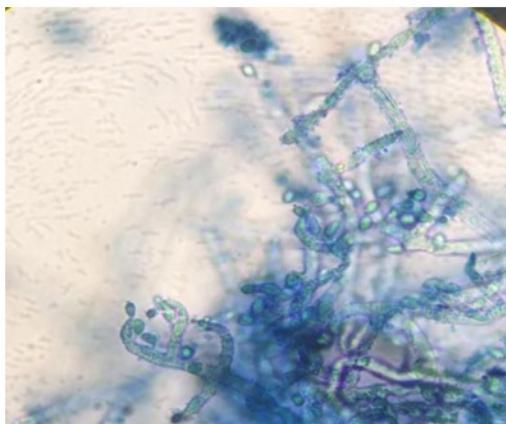
**Figure 4:** Macro morphology of fungal culture isolated from the CD01 sample (Lower surface)



**Figure 5:** Microscopic observations of fungal culture isolated from CI01 sample



**Figure 6:** Microscopic observations of fungal culture isolated from CI01 samples (internal tissues)



**Figure 7: Microscopic observation of fungal culture isolated from CD01 sample**



**Figure 8: Microscopic observation of fungal culture isolated from CD01 stem sample (Internal tissues)**

## Conclusion

According to macro- and micro-morphological characteristics, [REDACTED] was observed in CI01 and CD 01 samples. No specific dominant flora were recorded in CH01. No [REDACTED] growth was detected in any of the samples.

Signed,

A handwritten signature in blue ink, appearing to read "C. M. Nanayakkara".

Prof. C. M. Nanayakkara  
Professor of Plant Sciences (Chair)  
Department of Plant Sciences