

IMSL

INDUSTRIAL MICROBIOLOGICAL SERVICES LTD

STUDY REPORT: Determination of the Resistance of Samples to Fungal Growth.

**CLIENT: Biocote Ltd.
Wolverhampton Science park
Technology Centre
Glaisher Drive
Wolverhampton
WV10 9RU**

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1 Introduction

This report details a study into the resistance of a sample formulated with a silver based biocide to fungal growth using an agar plate method.

2 Test Materials

Samples of material were supplied by Biocote Ltd.

3 Methods

Fungicidal activity was determined using an agar plate method based on AATCC 30 Part 3. Sub-samples of the material were placed onto the surface of agar plates and then inoculated with a suspension of spores of *Trichophyton interdigial*.

Replicate sub-samples were placed on the surface of individual malt extract agar plates. An aliquot (100 µl) of a suspension ($> 10^5$ spores ml⁻¹) of spores of *Trichophyton interdigial* was then spread over the surface of both the sub-sample and the surrounding media. These plates were then incubated for 15 days at 20°C. After incubation the appearance of the plates was recorded photographically.

Table 1: Fungal Inoculum

Species	Reference Number
<i>Trichophyton interdigial</i>	DSMZ 16110

4 Results / Discussion

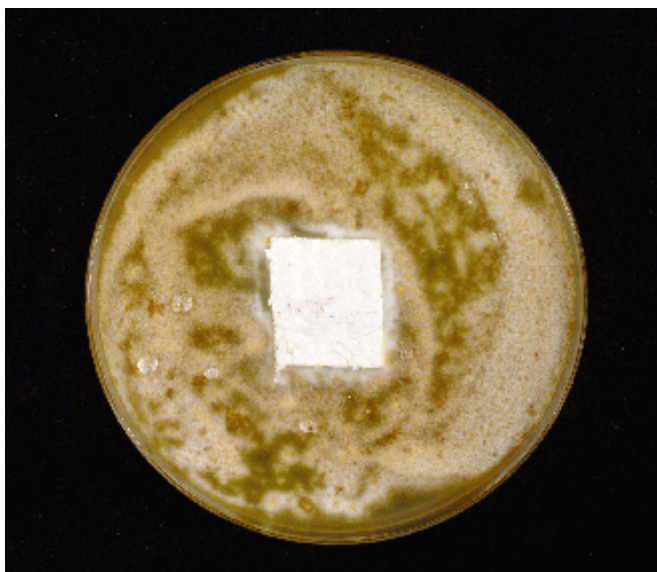
The results are shown as zone diameters and growth ratings in Table 1 below.

Table 1: Results as Zones Free of Growth (Mean of 3 Replicates) and Growth Rating

Coating	Average Zone (mm)	Rating
08/048	0	0

KEY 0 = No Surface Growth , 1 = Trace to 1%, 2 = 1% - 10%, 3 = > 10% - 30%, 4 = > 30% - 70%, 5 = > 70%

Plate 1:08/048



5 Raw Data

The raw data for this study will be held in file IMSL 1008905 in the Archive of IMSL at Pale Lane, Hartley Wintney, Hants, RG27 8DH, UK for 6 years from the date of this report unless other specific instructions are given.

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