

WIPE, Test Code 1037-Stachybotrys Culture & Total Fungal Count w/ Identification

The wipe culture test code 1037 includes a *Stachybotrys* Culture and Total Fungal Count with Identification. If a direct microscopic exam is needed along with cultures, Test Code 1066 includes all three analyses.

Stachybotrys is a toxigenic fungus that is commonly recovered from chronically wetted cellulose-based materials. Due to its toxigenicity, it has been linked to health problems in contaminated buildings and should be treated prudently and in accordance with recommended abatement guidelines.

Surface areas may be directly sampled to indicate the fungal population of a particular area. **Wipe samples** are indicated when obvious microbial growth is apparent and when enumeration of the organisms may be relevant in cases of workplace-related illness. The assessment of microorganisms may be useful in evaluating the hygienic status of a particular environment. Surface samples may also be taken to validate the effectiveness of a microbial abatement.

Sample areas with suspected or visible signs of microbial growth by swabbing the area with a sterile swab. Sampling from inappropriate areas may lead to false negative cultures.

A fungal culture can be performed on a surface by using a sterile transporter swab or wipe. In addition to moist areas, dry areas can be sampled using a Stuarts transporting swab

1. Crush the ampoule in the bottom of the swab to moisten the swab before sampling.
2. Remove both swabs of the double system and sample the affected surface by rolling both swabs vigorously over the area. Indicate surface area (cm² or in²) on chain of custody. Assessment samples should be no larger than a 4 x 4 area. Post abatement samples may be larger.
3. Label all samples appropriately and submit to the laboratory for analysis in a timely manner. *Swabs should be refrigerated if the samples are not immediately sent to the lab. A cold pack and cooler should be used during the warm months.

References:

Dillon, H. Kenneth, L. Hung, J. Miller, Field Guide for the Determination of Biological Contaminants in Environmental Samples., 5.2.6.6:61, 7.1: 141-143 (2005).

Macher, Janet, Sc.D., M.P.H., Bioaerosols , 7.4.1.2, 18.1.4.2 (1999).