

Fungi Identification Service

Description: The conventional methods of detection and identification of fungi have mainly relied on culture isolation and subsequent observations of morphological traits. These methods are time consuming, laborious, and may require days to weeks for isolation by culture. In addition, not all the fungal species are cultural on a given medium, which leads to analysis that may not accurately reflect the true fungal community in a sample.

With the advent of polymerase chain reaction (PCR), inexpensive DNA sequencing, and a relatively large databank of ribosomal DNA sequences, it is now possible to more objectively characterize and identify fungal species. However, due to the immense diversity in fungi, true group- and species-specific detection can be difficult to achieve. We apply PCR-based detection techniques of sequence polymorphisms in the internal transcribed spacer 1 & 2 (ITS- 1 & 2) region of the rDNA genes as a means of fungi identification. Unique, PCR products ranging from ~ 690-1300 bp are specific to fungi.

Identification is guaranteed up to genus level while species as well as sub species identification would be possible.

Service Tax as applicable will be charged extra

Ordering Information:

Product	Service	Cat #
Fungi Identification Service	Per Sample	116702

Features:

- Clearly characterize the fungi comparing with larger number of isolates had been utilized in earlier studies.
- Characterization will be based on ~ 690-1300 bp of ITS1&2 regions of the rRNA genes sequence analysis
- Identification will be based on 10 closest homolog fungi sequence available in NCBI GenBank
- Rapid and reliable service for identification of fungi, including potentially new or emerging pathogenic species.

Deliverables:

1. Final report containing the fungi identity information.
2. Nucleotide sequence percentage homology table indicating the identity within 10 most similar neighbours
3. Phylogenetic tree displaying evolutionary relationships among the 10 nearest neighbours fungal species included in the study.

Delivery Time: 6 Weeks

Application Form for Fungi Identification Service

Order No. / Date:

Name of the Scientist:

Institute/Address:

Any preliminary identification information known about the sample:

Whether the sample is infectious:

How to send samples:

1. Purity of microbial sample is the key for accurate identification.
2. Please send the culture in petriplates.
3. Isolated Total DNA is preferable
4. Ensure purity of the culture before sending.

Please do not consider this application form as a purchase order

NOTE: Kindly send this application to the following address:

Bangalore Genei Services, No. 6, 6th Main, BDA Industrial Suburb, Near SRS Road, Peenya, Bangalore - 560058.