

New Actinomycetes Identification Service

Description:

Identification of actinomycetes by traditional methods like biochemical assays is laborious, time consuming and requires expertise. These methods have not always been reproducible and adequate for the identification of newer species of actinomycetes. Since these bacteria are slow growing, 2 to 4 weeks is required for genus level identification and an additional 4 weeks or more is required for species-level identification.

A rapid PCR-based method for identifying filamentous actinomycete genera is developed based on 16S rDNA gene restriction analysis patterns to identifying actinomycete isolates. Amplified 16S rDNA of filamentous actinomycetes is restricted with selected endonucleases and electrophoresed on agarose gels. The restriction fragment patterns of the unknown isolates are easily compared to the established restriction patterns of known isolates.

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

Features:

- Based on 1500 bp of 16S rDNA gene sequence analysis.
- Restriction analysis of PCR amplified 16S rDNA region if required.
- Identification will be based on 10 closest homolog actinomycetes sequence available in NCBI GenBank.
- Similarity matrix and phylogenetic tree will be provided.
- Fast & reliable service.

Deliverables:

1. Final report containing the actinomycetes identification information.
2. Similarity Matrix table indicating the homology with 10 most similar neighbours.
3. Phylogenetic tree indicating evolutionary relationship of the bacteria with 10 nearest neighbours

Delivery Time:

Up to 10 samples: 6 weeks

Ordering Information:

Product	Service	Cat #
Actinomycetes Identification Service	Per Sample	117777

Service Tax as applicable will be charged extra