

DNA BARCODING SERVICES

DNA barcoding is a tool for rapid species identification and authentication of biological samples based on DNA sequences. It can identify specimens, root or leaf fragments, eggs, larvae, tissue etc. to the species level. DNA barcodes consist of a standardized short sequence of DNA (400–800 bp) from one or few genes generated through DNA sequencing techniques followed by characterization of species. A short DNA sequence of 600 bp in the mitochondrial gene for cytochrome c oxidase subunit 1 (CO1) has been accepted as a practical, standardized species-level barcode for animals. For plants, DNA barcode markers, *rbcl*, *matK*, and *ITS2*, are generally used to address basic questions in systematics, ecology and evolutionary biology.



How it works:

DNA is extracted from a sample from plant, fungus, insect or animal, amplified for the DNA barcode using PCR followed by sequencing to obtain DNA barcode.





What we deliver:

- A report with a specie identification result and summary of the methods followed.
- The results of the preliminary bioinformatic and phylogenetic analysis including sequences in FASTA format. If additional analyses is needed, please let us know and we will do our best to meet your needs.
- The raw electropherogram files, if requested.

FAQs

• What is the sample requirement?

Fresh/ Frozen tissue preferably stored in 70-80% alcohol

• What is the TAT?

7-10 working days

• What is the method of sequencing?

Sanger Sequencing

• Is the service available for plants?

We provide DNA barcoding for plants, animals and microbes

• I want to use a different marker is this possible?

Generally standardised markers are used, but customizations can be done on case-to-case basis.



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