

Description: Metagenomics enables the study of all microorganisms, regardless of whether they can be cultured or not, through the analysis of genomic data obtained directly from an environmental sample, providing knowledge of the species present, and allowing the extraction of information regarding the functionality of microbial communities in their natural habitat. Fungi-ITS-Seq Kit amplifies 28S rRNA D1-D4 region for fungal identification in environmental samples for NGS analysis. After NGS analysis, fungal microorganisms in environmental samples will be identified at the species level. The kit contains adapter and overhang sequences which provide to direct sequencing with Illumina platforms such as Iseq 100, Miniseq, MiSeq, NextSeq and Novaseq 6000.

Kit Components:

Contents	Amount
2X Fungi-ITS-Seq MasterMix	50 Rxn (1 ml)
Positive Control	25 µl
Negative Control	25 µl

Kit Protocol:

This standard protocol applies to a single reaction where only template needs to be added to the 2X Fungi-ITS-Seq MasterMix. This protocol is for one reaction, and for multiple reactions it is necessary to calculate the components in a proportional manner. All reagents should be thawed on ice, gently mixed and briefly centrifuged before use.

For fungal identification;

For 25 µl PCR Reaction	Volume
2X Fungi-ITS-Seq MasterMix	20 µl
Sample DNA or Positive Control or Negative Control	5 µl

Cycling Conditions:

PCR Step	Temp	Time	Cycle
Initial Denaturation	95°C	10 min.	1
Denaturation	95°C	30 sec.	35
Annealing (Touchdown)	53-48°C	30 sec.	
Extension	72°C	15 sec.	
Cooling	4°C	-	-

The PCR products obtained at the end of the PCR reaction are ready for NGS analysis.

Storage Conditions:

Store all contents at -20°C in a freezer.



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