

Aspergillus Genomic DNA Isolation Kit

Catalog# TBS6009

DESCRIPTION

The Aspergillus Genomic DNA Isolation Kit is designed for reliable and efficient isolation of genomic DNA from a broad spectrum of fungus species, including *Aspergillus fumigatus*, *Aspergillus nidulans*, *Aspergillus niger* var. *aureus*, *Candida albicans*, *Pichia pastoris*, *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe*, and any fungi whose cell walls are susceptible to yeast lytic enzyme lysis. The resulting genomic DNA can be used directly for all molecular biology analysis such as Southern Blot, PCR, and restriction enzyme digestion.

KIT COMPONENTS (100 TESTS)

Part#	Name	Size	Store
B1	Extraction Buffer 1	50 mL	RT
B2	Extraction Buffer 2	1 mL	-20 °C
B3	Digest Buffer 3	0.5 mL	-20 °C
B4	Purification Buffer 4	25 mL	4 °C
B5	TE buffer	2 mL	4 °C
Shelf-life: 6 month after receipt.			

APPLICATIONS

- PCR.
- Southern Blot.
- Restriction Enzyme Digestion

REAGENTS & EQUIPMENT NOT PROVIDED

- Isopropanol
- Ethanol

SAMPLE TYPES

- Aspergillus

DNA ISOLATION PROCEDURE

1. 0.1- 0.2 g of fresh fungal mycelium was transferred to a sterilized 2 ml Eppendorf tube with 0.5 ml of Extraction Buffer 1.
2. Add 10 µL Extraction Buffer 2. Mix well. Incubate for 30 min. at 37°C.
3. Add 5 µL Digest Buffer 3. Mix well. Placed in a water bath at 65°C for 0.5-1 hr.
4. Then place the sample to centrifuge at 10,000 rpm for 10 min at room temperature;
5. Collect the supernatant into a new microtube (2mL).
6. Add equal volume of Purification Buffer 4, then mix very well. Centrifuge again at 10,000 rpm for 5 min at RT;
7. Collect the supernatant into a new tube (2 mL), and then, add 1 volume of ice-cold isopropanol, and incubated at -20°C for 1h or -80°C for 30 min; Centrifuge for 15 min at 4°C, 13,000 rpm; (PS: The equal volume of ice-cold isopropanol can replace by 2 volume of ethanol.)
8. Supernatant is decanted, and DNA pellet is washed with 1ml of 70% ethanol, repeat 3 times;
9. DNA pellet was air-dried and dissolved in 100 µL distilled water or TE buffer.

RELATED PRODUCTS

- Universal Aspergillus qPCR Detection Kit (TBS42020)
- Aspergillus Flavus qPCR Detection Kit (TBS42021)
- Aspergillus Fumigatus qPCR Detection Kit (TBS42022)
- Aspergillus Niger qPCR Detection Kit (TBS42023)
- Aspergillus Terreus qPCR Detection Kit (TBS42024)