

GeNei™ DNA Fingerprinting Teaching Kit (using RAPD Technique)

Description: DNA Fingerprinting is a well known technique for establishing authenticity. Apart from its forensic applications, it has also evolved as a simple, yet elegant technique in solving paternity disputes, confirming quality parameters in plant biotech industries, characterizing microorganisms and other applications in medical sciences.

RAPD (Random Amplified Polymorphic DNA) is a PCR based technique that makes use of random primers that bind to a number of partially or perfectly complimentary sequences at unknown locations in the genome of an organism and produce specific bands (DNA fingerprints) that are unique. Due to variations in genomic DNA, the number and sizes of the amplified product will vary exhibiting genomic polymorphism.

The kit demonstrates RAPD technique in context to strain typing / identification. The kit provides enough materials to carryout 5/25 experiments.

Ordering Information:

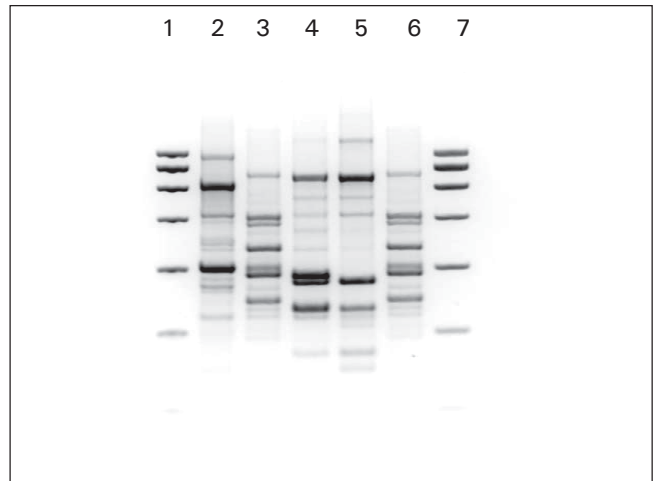
Product	Size	Cat #
GeNei™ DNA Fingerprinting Teaching Kit (Using RAPD Technique) (Consumables for 5 experiments)	1 Pack	106357
GeNei™ DNA Fingerprinting Teaching Kit (Using RAPD Technique) (Consumables for 25 experiments)	1 Pack	106360

Materials Provided:

- 4 Samples of Genomic DNA
- Test Genomic DNA
- Low Range DNA Ruler
- Taq DNA Polymerase
- 10X Assay Buffer
- Random Primer
- dNTP Mix
- Mineral oil
- Agarose
- 50X TAE
- Gel Loading Buffer
- PCR vials
- Instruction Manual.

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RAPD pattern of bacterial species
using 10 mer primer.
Product run on 2% Agarose Gel

Note: UV transilluminator, thermal cycler and EtBr are required.

- Lane 1 & 7 : Low range DNA ruler
- Lane 2 : RAPD Pattern of Strain 1
- Lane 3 : RAPD Pattern of Strain 2
- Lane 4 : RAPD Pattern of Strain 3
- Lane 5 : RAPD Pattern of Strain 4
- Lane 6 : RAPD Pattern of Test Strain