CREATIVE BIOMART®
Assay Kit

Bacterial Genomic DNA Isolation Kit

Product Information

Cat.No.

Kit-2105

Product Overview

The bacterial genomic DNA isolation kit provides convenient and simple step-by-step method for isolating quality genomic DNA from gram-negative and gram-positive bacterial species. This kit utilizes enzymatic reactions to release bacterial DNA from the cell. DNA release from the cell is coupled with adsorption of DNA onto a silica spin-column in the presence of high salt concentration, eliminating the use of toxic organic compounds or solvents. DNA purified by this kit is suitable for various downstream molecular biology applications such as PCR, cloning, DNA hybridization, and Southern Blotting.

Size

100 isolations

Description

Bacteria are one of the most abundant and diverse organisms on the planet, which take part in numerous critical ecosystem processes. Many bacterial species are pathogens that are responsible for causing a variety of human and animal diseases. In addition to their medical and ecological importance, bacteria are also used in various industrial applications such as production of enzymes and biofuels.

Applications

Useful for PCR, Cloning, DNA hybridization, Southern Blotting

Target Species

Bacterial

Storage

Store kit at -20°C and RT, protected from light. Briefly centrifuge small vials prior to opening. Read entire protocol before performing the assay.Buffer A, B, and E: Ready to use. Store at room

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temperature.Buffer C: Add 28 mL of 100% Ethanol, molecular biology grade. Mix well and store at room temperature.Buffer D: Add 136 mL of 100% Ethanol, molecular biology grade. Mix well and store at room temperature.Enzyme Mix A, Enzyme Mix B, and RNAseA: Ready to use. Store at -20°C. Keep on ice at all times while in use.Spin Columns: Ready to use. Store at room temperature in dry conditions.

Kit Components

Buffer A [Re-suspension Buffer]: 25 ml; RTEnzyme Mix A: 1 ml; -20°CRNAse A: 600 μl; -20°CBuffer B [Reaction Buffer]: 1.7 ml; RTEnzyme Mix B: 1.2 ml; -20°CBuffer C [Binding Buffer]: 25 ml; RTBuffer D [Wash Buffer]: 30 ml; RTBuffer E [Elution Buffer]: 22 ml; RTSpin Columns/Collection Tubes: 100 tubes; RT

Compatible Sample Types

Gram positive and gram negative bacterial species

Features & Benefits

Simple & rapid method to isolate highly pure, intact DNA from bacteria

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