

Bacterial Genomic DNA Isolation Kit

Cat. No. Kit-2105 **Lot. No.** (See product label)

SPECIFICATION

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 temperature. Buffer C: Add 28 mL of 100% Ethanol, molecular

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	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; RT Enzyme Mix A: 1 ml; -20°C RNase A: 600 µl; -20°C Buffer B [Reaction Buffer]: 1.7 ml; RT Enzyme Mix B: 1.2 ml; -20°C Buffer C [Binding Buffer]: 25 ml; RT Buffer D [Wash Buffer]: 30 ml; RT Buffer E [Elution Buffer]: 22 ml; RT Spin 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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