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The FastPrep® System

Quickly Lyse Virtually Any Sample

Introduction

The FastPrep® System is the most versatile, efficient and rapid sample preparation method available today. FastPrep® System products offer a unique means by which virtually any type of sample, no matter how difficult, can be quickly and consistently homogenized in 40 seconds.



The FastPrep® Instrument replaces cumbersome, inefficient alternatives such as a vortex, mortar and pestle, sonicator or blender. This

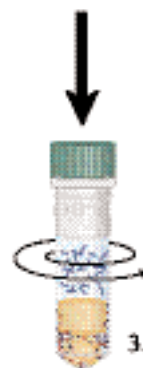
unique, high-speed benchtop homogenizer employs a powerful, patented technology for the extremely rapid lysis of almost any sample. Use the FastPrep® Instrument with FastRNA® Pro Kits and FastDNA® Kits to rapidly and consistently lyse and purify nucleic acids from seeds, roots, stems, gram positive bacteria, frozen mammalian tissue, spores, bone, museum specimens and more. Use the FastPrep® Instrument with FastProtein™ lysing matrices to rapidly and consistently lyse yeast or bacterial host strains to allow purification of recombinant proteins.

Samples are added to impact-resistant 2.0 ml tubes containing an optimized lysing matrix and buffer. In approximately 40 seconds, the patented "figure-8" vertical, angular motion of the FastPrep® Instrument causes the lysing matrix particles to impact the sample from all directions simultaneously, releasing nucleic acids and proteins into the protective buffer. After centrifugation of the sample, now homogenized in a protective buffer, the FastDNA® protocol finishes with a patented, silica-based GENECLEAN® procedure. The FastRNA® Pro kits conclude with a chloroform extraction and ethanol precipitation. Proteins can be isolated from lysates via a wide variety of user-specific methods.

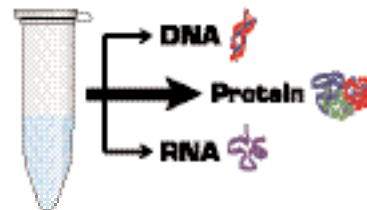
The FastPrep® Instrument makes it possible to isolate DNA, RNA and protein from sources that are virtually impossible to lyse without the use of its rapid reciprocating motion. When compared to traditional homogenization methods such as vortexing, syringe shearing, grinding with a mortar and pestle, using hot phenol, or hammering samples frozen with liquid nitrogen, the FastPrep® Instrument will save hours of work during the sample preparation stage and provide higher yields of intact DNA, RNA, and protein.



2. Process with FastPrep Instrument



4. Transfer cleared lysate



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