

Automated Nucleic Acid Preparation

Extract DNA from a Variety of Biospecimens in a Fraction of the Time

Introducing the AnaPrep 12Dx:

Are you looking for an automated instrument that can isolate both DNA and RNA from various biological and pathological specimens (e.g., bloods, saliva, urine, pathogen, virus, bacteria, cell, tissues)? The AnaPrep 12Dx, which has a built-in camera, and complies to FDA and GMP (CFR21 Part 11), would be an ideal automated sample preparation system for both research and clinical settings.

BioChain's AnaPrep 12Dx is a magnetic bead-based machine, has a traceability system, and the name was extracted from Automated Nucleic Acid Preparation system. It is designed to deliver up to 12 samples in approx. 1 hour using kits that are compatible with the machine. It is a workhorse for extracting viral RNA from nasal swabs during the COVID-19 pandemic for RT-qPCR testing and have been widely used for DNA/RNA extraction from blood and plasma, as well as from tissues. It comes with pre-programmed protocols to match with sample type so that user does not have to modify the instruction every time a new type of biological samples is used.

Get more features for the same old price. AnaPrep 12Dx retains all of the beloved features of the discontinued AnaPrep 12 but adds significant improvements. Traceability is retained and comparison experiments between the two systems concluded no notable data differences.



Key Features

- Touchscreen GUI
- No cross contamination
- Built-in UV lamp for decontamination purposes
- Sample volume size can vary from 200uL to 1mL
- Elution volume can be adjusted from 50uL to 300uL
- Pre-filled reagent cartridges (kits) are disposable

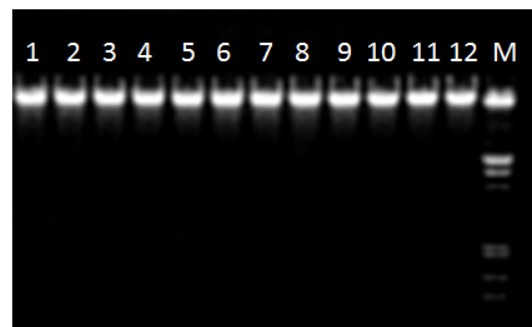
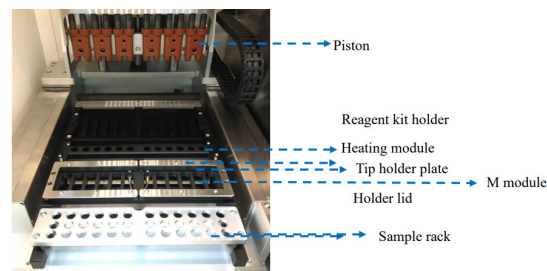
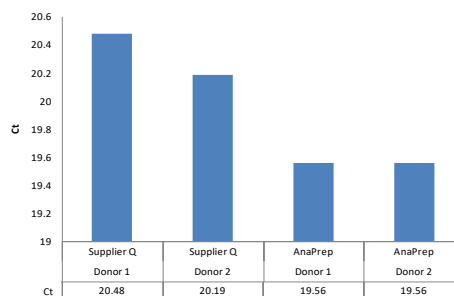


Figure 1. Agarose Gel Analysis of gDNA from whole blood samples. Genomic DNA was extracted from human whole blood samples from 12 donors.



Blood Extraction Results:

Figure 2. DNA was purified from whole blood of two donors using AnaPrep Blood extraction kit and a manual extraction kit (column-based). These DNA extracts were analyzed with qPCR using β -actin as target. These data show that quality and quantity of automated extractions are similar or better than the manual kit.



Concentration and Purity of Nucleic Acids Extracted:

Instrument	Cultured Cells			FFPE Tissue		
	ng/ μ l	260/280	260/230	ng/ μ l	260/280	260/230
AnaPrep 12	244.7	1.9	2.24	64.44	1.76	2.11
	250.9	1.8	2.08	71.11	1.82	2.13

Table 1. Concentration and purity of nucleic acids extracted from cultured cells and FFPE tissue using AnaPrep equipment. Concentration as measured by ng/ μ l varies based on sample size. This table also shows the purity and abundance of nucleic acids extracted using AnaPrep equipment. Other contaminants such as proteins and organic compounds are readily removed from this

*Experiments and data obtained from AnaPrep 12 (succeeded by AnaPrep 12 Dx). No significant differences found in data results between the two systems.

Please inquire about our other kits and applications.