



iPrep™ Purification Instrument





The iPrep™ advantage for rigorous sample standardization

The iPrep™ Purification Instrument

- Highly flexible—accommodate up to 12 samples per run (plus a positive extraction control) in as little as 18 minutes per run
- Easy to load—prepackaged reagents in cartridges eliminate set-up variation and allow for simple process validation
- Easy to use—just load the reagent cartridges, add samples, and select a protocol
- Small footprint—uses only 21" (50 cm) of bench space (Table 1)
- Integrated ChargeSwitch® technology—for inhibitor-free purification

Nucleic acid purification—it may be just the first step in your experiment, but it's a crucial first step. The rigorous standards of applications such as STR analysis from buccal swabs and forensic samples demand sensitive and reproducible nucleic acid isolation, as well as highly pure DNA.

ChargeSwitch® technology

The iPrep™ Purification Instrument takes advantage of ChargeSwitch® technol-

ogy, a major advance in DNA purification.

This technology is based on a unique, ionizable nucleic acid-binding ligand whose charge can be switched based on the pH of the surrounding medium.

ChargeSwitch® technology:

- Employs a simple three-step (bind, wash, elute) procedure
- Is ideal for low copy number samples
- Avoids the use of guanidine, ethanol, and other troublesome reagents

Unlike silica-based purification methods, ChargeSwitch® technology uses 100% aqueous buffers and avoids hazardous reagents that can inhibit downstream applications such as PCR, qPCR, RT-PCR, STR analysis, sequencing, and WGA. Additionally, it excels at extracting DNA from forensic samples and buccal scrapes.

Eliminate manual variability with turnkey automation

Automated DNA purification eliminates user-to-user variability, thereby enhancing the reproducibility of the process. However, traditional automation of DNA extraction in 96-well formats requires sophisticated and expensive liquid handling instruments.

Introducing the iPrep™ Purification Instrument (Figure 1). The iPrep™ instrument gives you the flexibility to process up to 192 samples per 8-hour workday, ensuring the fast turnaround that is crucial to your time-sensitive experiments (Figure 2). Thanks to prefilled reagent cartridges, setting up runs on the iPrep™ instrument for DNA purification is quick, easy, and intuitive—a true push-button solution. Flexible throughput, standardization, and ease of use—these are the keys to successful DNA purification using the iPrep™ instrument.

Table 1—Specifications of the iPrep™ Purification Instrument.

Dimensions	21" W x 12" D x 22" H (50 cm x 55 cm x 58 cm)
Weight	113 lb (52 kg)
Software	iPrep™ Cards (iPrep™ Forensic Card and iPrep™ gDNA Blood and Tissue Card)
Hardware	Self-contained; no external computer required
Safety	CE and UL certified



Figure 1—Quick, intuitive, and easy to use. To isolate nucleic acids using the iPrep™ Purification Instrument, simply insert the iPrep™ Card and select a protocol, load the cartridges and tips, then add your samples, close the instrument, and press “Start”.

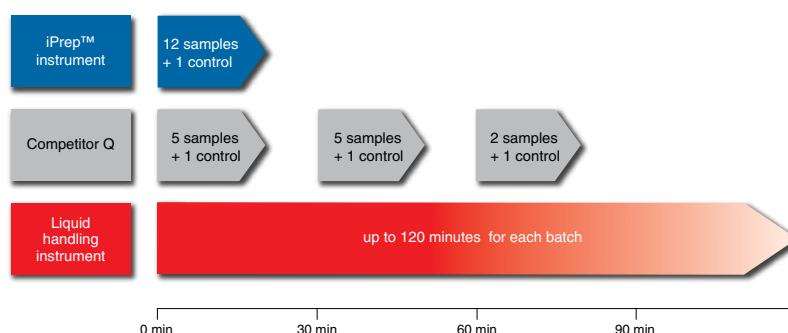


Figure 2—Fast turnaround time for processing 12 samples. The iPrep™ Purification Instrument provides a rapid and affordable route into automated DNA purification compared to expensive liquid handling instruments or a 6-prep system from Competitor Q.

Getting more information from your samples

Four versatile kits are available to extend the capabilities of the iPrep™ Purification Instrument (Table 2). These kits focus the powerful ChargeSwitch® or GeneCatcher™ technologies to reduce your sample preparation hassles and get you to the data sooner.

Table 2—Kits for use with the iPrep™ Purification Instrument.

iPrep™ kit	Automated protocol time	Starting material	Key benefits
iPrep™ ChargeSwitch® Forensic Kit	20 min	Forensic samples	High STR success rate from low copy number samples
iPrep™ ChargeSwitch® Buccal Cell Kit	18 min	Buccal swabs	Average yield of 2 µg gDNA with reproducible purity
iPrep™ ChargeSwitch® gDNA Tissue Kit	30 min	10 mg of tissue	High gDNA yields from a wide variety of tissues
iPrep™ GeneCatcher™ gDNA Blood Kit	26 min	Up to 350 µl of fresh or frozen whole blood	Yields >5 µg of highly pure gDNA

Invitrogen service and support

Do you need to guarantee turnaround time for DNA extraction and analysis? As part of its premium warranty options, Invitrogen offers a loaner service designed to keep your workflow moving, even if your iPrep™ Purification Instrument needs servicing. You can ensure that a replacement instrument gets delivered within 3 business days, if needed, by choosing our premium warranty option or premium on-site warranty option, each of which includes preventive maintenance visits.

Ordering information

Product	Quantity	Cat. no.
iPrep™ Purification Instrument	each	IS-10000
iPrep™ GeneCatcher™ gDNA Blood Kit	52 preps	IS-10001
iPrep™ ChargeSwitch® Forensic Kit	52 preps	IS-10002
iPrep™ ChargeSwitch® Buccal Cell Kit	52 preps	IS-10003
iPrep™ ChargeSwitch® gDNA Tissue Kit	52 preps	IS-10004
iPrep™ gDNA Blood and Tissue Card (includes tissue protocol)	each	IS-10010
iPrep™ Forensic Card (includes buccal protocol)	each	IS-10011

For current prices, please visit www.invitrogen.com.



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