



# Flexible NUCLEIC ACID Solutions

*for forensic laboratories*



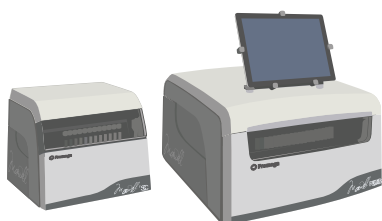
# Nucleic Acid Preparation

## *made easy*

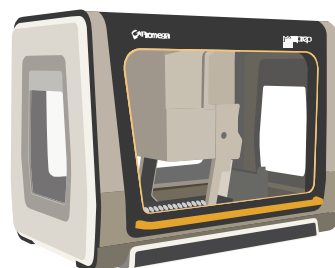
Our modular nucleic acid preparation solutions let you adapt your workflow as your laboratory needs change.

### Sample Prep

- › Reagent Additions
- › Incubation
- › Elution Buffer Addition
- › Plunger Placement\*



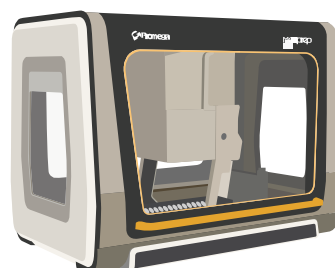
With prefilled cartridges and preprogrammed methods, Maxwell® Instruments offer reliable, consistent nucleic acid purification with the flexibility to process only the sample number you need.



Preprogrammed to work with the Maxwell® FSC DNA IQ™ Casework Kit, the Maxprep™ Liquid Handler simplifies and automates sample and Maxwell® cartridge preparation.

### Extraction

Maxwell® FSC (1–16 Samples)  
Maxwell® RSC 48 (1–48 Samples)



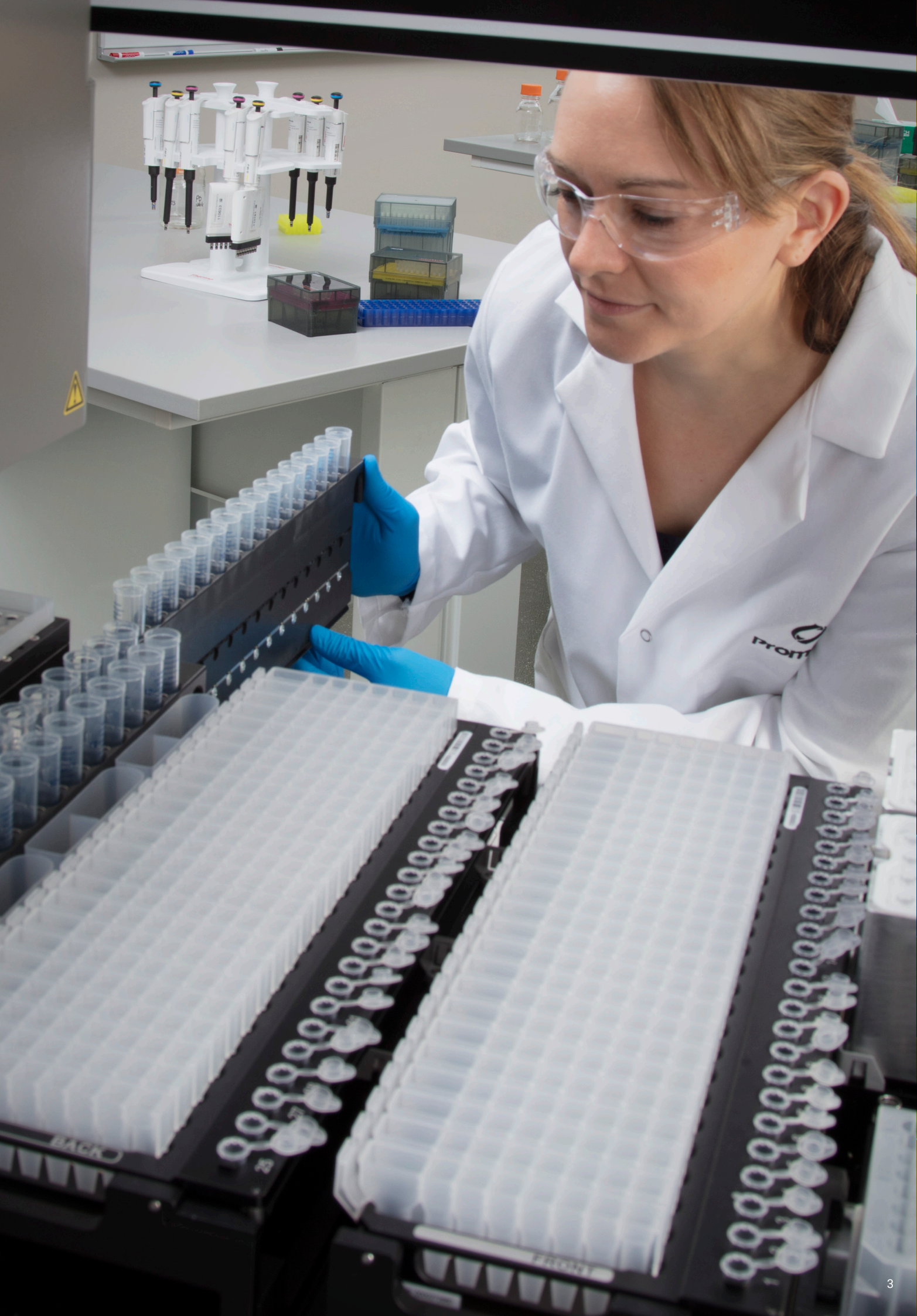
### Post-Extraction

- › Quantification Setup for Plexor® HY and PowerQuant® Systems
- › Eluate Transfers\*
- › Amplification Setup
- › CE Setup\*

With post-extraction methods for nucleic acid quantification, normalization, eluate transfers and amplification setup, the Maxprep™ Liquid Handler simplifies your downstream assay preparation.

\*Methods in development







# Streamline Your Sample Handling *with one instrument*





## Increased Consistency

Whether you are processing samples for nucleic acid purification with your Maxwell® FSC or RSC 48 Instrument or preparing purified samples for downstream amplification reactions, the Maxprep™ Liquid Handler ensures that every sample is handled the same way every time regardless of the operator. The easy-to-use software interface means anyone in your lab will be able to quickly run samples using the preprogrammed protocols. With no methods to create or protocols to write, the Maxprep™ Liquid Handler is ready to do the tedious work for you.

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*With preloaded methods for sample preprocessing and post-purification applications, the Maxprep™ Liquid Handler easily integrates wherever you need it in your laboratory workflow.*

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## Preloaded Post-Purification Protocols

### ELUATE TRANSFER\*

Transfer eluted nucleic acid from Maxwell® elution tubes to more permanent storage containers. Reformat and combine multiple Maxwell® runs from elution tubes to microplate formats.

### QUANTIFICATION SETUP

Set up for Plexor® HY or PowerQuant® Systems.

### AMPLIFICATION SETUP

Normalization of Extracted DNA and PCR Setup.

### CE SETUP\*

Set up 96-well plate for analysis on capillary electrophoresis instruments.



\*Methods in development



# Flexible, Modular *nucleic acid purification*





A vertical photograph on the left side of the page shows a portion of a white laboratory instrument, the Maxwell FSC or RSC 48. The image is slightly out of focus, showing the top and side of the device with some internal components visible.

## Increased Flexibility

As your personal purification assistant, the Maxwell® FSC or RSC 48 Instrument easily integrates into your laboratory workflow, while the compact size minimizes the impact on precious laboratory space.

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*New for Maxwell® RSC 48! A large LED Indicator and integrated vision system for detecting proper cartridge setup further reduces the potential for user error.*

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### FLEXIBLE

Detailed developmental validation studies document the use of the Maxwell® FSC and RSC 48 Instruments with a variety of forensic casework sample types, including blood stains, semen stains, hairs, cigarette butts, tissue samples and trace or “touch” DNA samples. The protocols are fast and easy. You can process anywhere from 1 to 16 samples simultaneously with the Maxwell® FSC and 1 to 48 samples with the Maxwell® RSC 48.

### RELIABLE

Using prefilled cartridges and preprogrammed methods reduces the potential for user error. Purified nucleic acids are ideal for downstream applications such as human DNA quantification and STR analysis.

### EFFICIENT

Automating nucleic acid purification frees up your time. The integrated quantitation eliminates the need to re-enter sample IDs and creates a streamlined, simple sample tracking report that easily exports to your laboratory notebook.

### INTUITIVE

Maxwell® software is so easy to use and intuitive that you'll be able to set up and perform your first run in a matter of minutes after initial instrument setup.



# Your Complete *nucleic acid purification system*

## Increased Traceability

The Promega Portal software tracks samples as they move from one module to the next. The Portal software automatically shares sample IDs and recommends protocols for next steps as you move through your DNA processing workflow.

## Sample Tracking

The Maxprep™ Liquid Handler automatically scans the sample bar codes as they are placed into the instrument. Once you scan the Maxwell® FSC DNA IQ™ Casework Kit and the bar code on the Maxwell® Deck Trays, the Promega Portal software does the rest. The Portal monitors where each sample is placed in the Deck Tray and which Maxwell® kit was used; then it passes this information directly to the Maxwell® FSC or RSC 48 Instrument for walkaway extraction.

## Adaptable

The Maxprep™ Liquid Handler can accommodate up to two Maxwell® RSC Deck Trays for sample and cartridge preparation.









# World Class *service & support*

Our instruments are backed by a comprehensive standard warranty, expert service and a full line of additional service products. With a comprehensive menu of service and support options, you can be confident that your equipment will be working properly and ready when you need it. Installation Qualification (IQ), Operational Qualification (OQ) and Preventive Maintenance (PM) services ensure that your instrument is fully functional and provide documentation that the instrument is operating to defined specifications.

## **Maxprep™ Liquid Handler**

The Maxprep™ Liquid Handler is installed by qualified Promega personnel who will test the instrument, document installation actions and train lab personnel to successfully operate the instrument.



# Ordering *information*

Expand and adapt your laboratory automation based on your throughput needs. Our modular workflow allows you to incorporate existing Maxwell® FSC and RSC 48 Instruments into the Maxprep™ Liquid Handler workflow and add additional units as your throughput needs grow.

<b>Maxprep™ Configurations</b>	<b>Cat.#</b>
Maxprep™ Liquid Handler, RSC Carriers	AS9100
Maxprep™ Liquid Handler, RSC 48 Carriers	AS9200
Maxprep™ Liquid Handler, RSC Carriers w/ UV Light	AS9101
Maxprep™ Liquid Handler, RSC 48 Carriers w/ UV Light	AS9201

<b>Maxprep™ Accessories and Consumables</b>	<b>Cat.#</b>
Maxprep™ Carrier, Maxwell® RSC	AS9402
Maxprep™ Carrier, Maxwell® RSC 48 Front	AS9403
Maxprep™ Carrier, Maxwell® RSC 48 Back	AS9404
Maxprep™ 50µl Conductive Filter Tips (60 Tip Boxes)	AS9301
Maxprep™ 300µl Conductive Filter Tips (60 Tip Boxes)	AS9302
Maxprep™ 1000µl Conductive Filter Tips (40 Tip Boxes)	AS9303

<b>Maxwell® Instruments</b>	<b>Cat.#</b>
Maxwell® RSC 48 Instrument	AS8500
Maxwell® FSC Instrument	AS4600

<b>Maxwell® Accessories</b>	<b>Cat.#</b>
Maxwell® RSC Bar Code Reader	AS3200
Maxwell® FSC Deck Tray	AS4016
Maxwell® RSC 48 Front Deck Tray	AS8401
Maxwell® RSC 48 Back Deck Tray	AS8402

<b>Related Products</b>	<b>Cat.#</b>
Maxwell® FSC DNA IQ™ Casework Kit	AS1550
CW Spin Baskets	AS8101



# Instrument *specifications*

## Maxwell® FSC Instrument

**Sample Capacity:** 1–16 Samples

**Intended Use:** For Research Use Only. Not for Use in Diagnostic Procedures.

**Dimensions (W × D × H):**

13 × 13.6 × 11.8 inches  
(330.2 × 345.2 × 299.7 mm)

**Weight:** 24.2 lb (11 kg)

**Main Power Voltage:**  
100–240V AC, 50/60Hz;  
autosensing; 2.5 Amps

**Operating Environment:**  
15–25°C

**Service and Warranty:** 1-year limited warranty on parts and labor. Extended service contracts.

**UV Bulb:** Average lifetime approximately 6,000 hours.

## Maxwell® RSC 48 Instrument

**Sample Capacity:** 1–48 Samples;  
(2) 24 position, removable trays

**Intended Use:**  
For Research Use Only.

**Dimensions (W × D × H):**

21 × 20 × 12.5 inches  
(533 × 508 × 317.5 mm)

**Weight:** 70 lb (31.75 kg) est.

**Main Power Voltage:**  
100–240V AC, 50/60Hz;  
autosensing; 4 Amps

**Operating Environment:**  
15–25°C

**Service and Warranty:** 1-year limited warranty on parts and labor. Extended service contracts.

**UV Bulb:** Average lifetime approximately 9,000 hours.

## Maxprep™ Liquid Handler

**Sample Capacity:** 1–48 Samples;  
(2) 24 position Maxwell® RSC 48 or  
(2) 16 position Maxwell® RSC  
removable trays

**Intended Use:**  
For Research Use Only

**Dimensions (W × D × H):**

42.1 × 27.8 × 33 inches  
(106.9 × 70.6 × 83.3 cm)

**Note:** The total instrument height with the door open is 48.4 inches (123 cm).

**Weight:** 220 lb (98.6 kg) est.

**Main Power Voltage:**  
Input: 100–240V AC, 50/60Hz, 5A

**Operating Environment:**  
15–25°C

**Service and Warranty:** 1-year limited warranty on parts and labor. Extended service contracts.

**UV Bulb:** Average lifetime approximately 10,000 hours.