

Molecular Biology

FastPrep



www.mpbio.com

Sample Preparation for Nucleic Acid and Protein Extraction



Often Imitated, Never Duplicated!

www.mpbio.com/fastprep

FastPrep - 24™ 5G

Grind, Homogenize and Lyse
Any Sample in 40 seconds or Less!

OFTEN IMITATED,
NEVER
DUPLICATED

MOST
VERSATILE!



FastPrep-24™ 5^G
Homogenizer

Delivering the most
DNA, RNA and Proteins from
the most resistant samples in
40 seconds or less!

The FastPrep-24™ 5G Instrument is the latest version of the well-known FastPrep® system. This versatile sample disruption device gives the ultimate in speed and performance for the lysis of biological samples.

A completely self-contained system, the FastPrep-24™ 5G Instrument eliminates the risk of cross-contamination and time-consuming clean-up associated with manual lysis method.

Samples and buffers are simply added to a Lysing Matrix tube containing specialized Lysing Matrix beads. The ergonomic design of the instrument ensures an easy loading of the sample tubes that remains securely sealed during the processing.

The homogenization speed and duration times are manually programmed using a touchscreen visual display. After setting your speed and time with the touch of a button, just push «run», and in less than a minute your samples are completely lysed!

| Cat. No. | Description |
|-----------|----------------------------|
| 116005500 | FastPrep-24™ 5G Instrument |

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Features of the 5G

| NEW FEATURES | BENEFITS |
|--|--|
| Increased Power Settings to 10 M/S | Highest Power Available Faster Processing Times Lyse Tougher Samples |
| Time: 1-120 Seconds Cycles: 1-9 Cycle Pause: 1-300 seconds | Less User Intervention True Walk-Away Operation |
| Touchscreen User Interface | Intuitive and Easy to Operate |
| >70 Recommended Programs | Validated, for Quicker Optimizations, |
| Manual Program-N-Store (Save up to 12 custom programs) | Saves Time and Knowledge |
| Export Data Function | Archive Assays and Results |
| USB Port | Easy Software Upgrades |
| Sound Interface | Audible Program Run Status Alerts |
| Strobe Effect | Visual Optimization Tool |

The heartbeat of the NEW 5G is a microprocessor control interfaced to a touch screen display. The large, 7-inch HD monitor allows assay parameters to be set with the touch of a button. Hi-def graphics and intuitive software make programming the 5G fast and simple. High-tech exterior graphics make the 5G not only smart, but beautiful.



The graphical user interface allows twelve user-defined custom programs to be saved to memory.



Assay run data are recorded and can be exported and software upgrades can be uploaded and installed via a USB port.



The Dome Locking system now includes an electro-mechanical lock operated from the touch screen

More Exclusive Features to Maximize your Valuable Time

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FastPrep-24™ Classic

Most Advanced, Rapid and Thorough Extraction
of DNA, RNA and Proteins



- Timeless Excellence
- Dependable
- Reliable
- Flexible
- Affordable
- Classic Results
 - 8500 Citations
 - Higher Yields

FastPrep-24™
Classic

- Power to homogenize resistant samples with ease
- Interchangeable sample holders for flexibility in sample size and cryogenic lysis capability: 24 x 2 mL, 48 x 2 mL, 24 x 4.5 mL, 6 x 15 mL, 12 x 15 mL, or 2 x 50 mL
- High reproducibility with precise setting of lysis time and speed
- Eliminate cross contamination with single-use matrix tubes
- Save up to 5 pre-set speed/time parameters
- Complete purification kits with Lysing Matrix Tubes included

| Cat. No. | Description |
|-----------|-------------------------|
| 116004500 | FastPrep-24™ Instrument |

FastPrep® -24 Classic Workflow



Same Great Quality From A Brand You Trust



FastPrep - 24™ Sample Holders

Sample Holders for Any Sample type and Size!



QuickPrep™ Sample Holder

24 x 2 mL samples (included with FastPrep®-24 and FastPrep™-24 5G Instrument)

Cat. No. 116002-512

2mL - 50mL tube sizes,
Ambient or Cryogenic conditions

All Sample Holders fit either instrument pictured here.



TeenPrep™ Sample Holder

12 x 15 mL samples
Cat. No. 116002-526



HiPrep™ Sample Holder

48 x 2 mL samples
Cat. No. 116002-527

CoolPrep™ Sample Holder

24 x 2 mL samples
under cryogenic conditions
Cat. No. 116002-528

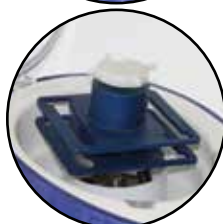


BigPrep™ Sample Holder

2 x 50 mL samples
Cat. No. 116002-525

TallPrep™ Sample Holder

24 x 4.5 mL samples
Cat. No. 116002-540



Metal BigPrep™ Sample Holder

2 x 50 mL samples
Cat. No. 116002-547



Metal TeenPrep™ Sample Holder

12 x 15 mL samples
Cat. No. 116002-546

CoolTeenPrep™ Sample Holder

6 x 15 mL samples
under cryogenic conditions
Cat. No. 116002-530



Metal QuickPrep™ Sample Holder

24 x 2 mL samples
Cat. No. 116002-545

Metal TeenPrep™ Sample Holder

12 x 15 mL samples
Cat. No. 116002-546

CoolBigPrep™ Sample Holder

2 x 50 mL samples
under cryogenic conditions
Cat. No. 116002-531



FastPrep-96™

The Ultimate in High-Throughput Sample Preparation

- High Throughput - Process up to 192 samples simultaneously in 2 x 96 deep well plates (included)
- Exceptional Versatility - Interchangeable sample holders available: 96 x 2 mL tubes, 48 x 4.5 mL tubes, 24 x 15 mL tubes, 8 x 50 mL tubes, and 2 x 250 mL flasks
- Fast Processing Speed - 1800 Oscillations/min
- True Linear Motion - Eliminates the need to re-orient plates mid-cycle

EFFICIENTLY LYSE:

Human and animal tissues, Tumors, cultured cells
Leaves, seeds, stems, roots, Bacteria gram + or -
Yeast, fungi, spores, Feces, soil, sediments,
Food samples



2 x 96 well plate sample holder included with instrument



Nothing Resists Grinding, Lysis and Homogenization with the High-Throughput FastPrep-96™ System

The FastPrep-96™ system delivers high-throughput sample homogenization, grinding and lysis with the highest efficiency, quality and reproducibility. Perform your DNA, RNA, protein and small molecule extractions from the most difficult, dirty, tough, large or tiny samples. With the highest power settings available, FastPrep-96™ utilizes high-speed linear motion to disrupt any tissues or cells thoroughly through the simultaneous beating of specialized lysing matrix particles.

FastPrep-96™ offers the widest variety of sample holders (2 x 96 deep well plates, 96 x 2 mL, 48 x 4.5 mL, 24 x 15 mL, 8 x 50 mL and 2 x 250 mL flasks) and a simple, accurate, closed loop control of lysing power and speed. All this and more make the new FastPrep-96™ the perfect solution for all of your high volume sample preparation needs.

| Cat. No. | Description |
|-----------|--|
| 116010500 | FastPrep-96™ Instrument (includes 2 x 96 well plate Sample Holder) |

Sample Holders available to fit the FastPrep-96.

Visit www.mpbio.com to view sample holders to fit your application!



SuperFastPrep-2

Lyse your samples in 5 Seconds wherever you are!



- Omnidirectional motion with the highest G's!
- Handheld system for lab and field use.
- Uses standard 2 mL screw cap tubes for lysis.
- Compatible with all FastPrep Lysing Matrices.
- Compatible with all FastPrep purification kits.

SuperFastPrep-2™

Powerful, Portable, Sample Lysis at your Fingertips

The SuperFastPrep-2™ from MP Biomedicals is the newest addition to the trusted FastPrep Family of sample preparation products. An evolution of the famous high-throughput sample preparation system from Bio101® Systems, with more than 8,000 installations worldwide, FastPrep® provides a unique means of homogenizing by which any type of sample, no matter how tough, can be quickly and consistently lysed within 5 seconds. For the first time, FastPrep® technology is available in a lightweight, compact, handheld format.

When compared to traditional homogenization methods such as vortexing, ultrasonication, rotor-stator homogenizers, grinding with a mortar and pestle, or chemical or enzymatic lysis, the SuperFastPrep-2™ will save hours of work during the sample preparation stage and provide higher yields of intact DNA, RNA and Proteins.

| Cat. No. | Description | Pack Size |
|-----------|---------------------|-----------|
| 116011500 | Super FastPrep-1 | Each |
| 116011510 | Field Carrying Case | Each |
| 116011520 | Voltage Converter | Each |

| | |
|----------------------------------|---|
| Disruption Principle | Bead Beating |
| Power requirements | 90-240V for lab version, cordless operation for field version |
| Overall Length | 13" |
| Overall Width | 3.4" |
| Overall Height | 4.6" |
| Weight | 2.2 lbs |
| Number of Tubes per Run | 1 |
| Size of Tube | Std 2 mL (screw cap), skirted or non-skirted |
| Maximum speed | 4,900 CPM (AC powered) 4,400 CPM (cordless) |
| Minimum speed | 1,000 CPM (AC powered) 500 CPM (cordless) |
| Type of Motion | Reciprocating |
| Peak to Peak Amplitude of Motion | 1.5" |
| Peak Acceleration | up to 500 G. |
| Sound at 1ft | 100 dB at 4,900 CPM 90 dB at 3,300 CPM |
| Typical Run Time | 2-15 seconds at 3,300 CPM |



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Laboratory
Needs!**



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Cell Biology

Adsorbents

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