



2050 Genomax[®]

- Automated mechanical cell lysis through bead beating, ideal for DNA/RNA and protein extraction
- High-throughput tissue processing designed for clinical, pharmaceutical and biological applications
- The 2051 General-Purpose Clamp is supplied with the Genomax for processing vials, tubes and jars, ranging from 1 mL to 750 mL
- New 2052 Titer Plate Clamp available for securing titer plates to prevent leakage during homogenization
- Kryo-Tech[®] accessories available to preserve temperature sensitive samples for nucleic acid and protein extractions



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2050 Genomax[®]

Automated Tissue Homogenizer and Cell Lyser for Biological Applications

The Genomax is an automated high-throughput plant and animal tissue homogenizer and cell lyser designed for rapid cell disruption, cell lysis and tissue homogenization through bead beating. This enables fast and efficient extraction of nucleic acids, proteins and other molecules.

The Genomax is programmed via touch screen interface allowing users to set and store run time, operating rate, pause time and cycles. Protocols can be passcode protected. The Genomax comes pre-loaded with one-touch protocols for plant and animal tissue homogenization.

DNA isolation kits are available for extraction and purification of DNA from animal and plant tissues. In addition, a full range of Kryo-Tech[®] accessories is available to preserve temperature-sensitive samples.

Typical applications: molecular biology, pharmaceutical, clinical research and extraction.

Typical samples: plant tissue, animal tissue, cell cultures, and microorganisms.

Before & After Samples

Animal Tissue



Programmable touch screen
(with pre-programmed protocols)



Automated tissue lysis



Efficient vertical motion

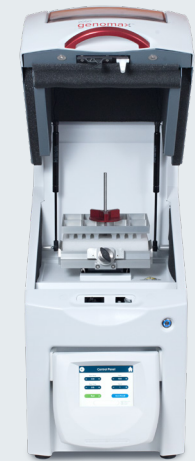


Compatible with Spex DNAmix
nucleic acid extraction kits

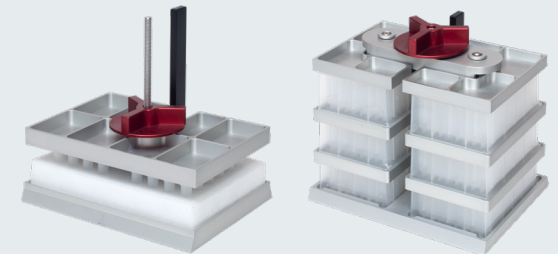
Specifications

2050 Genomax

Clamp Movement	1.25 in (3.2 cm) vertical
Clamp Speed	Adjustable from 500 to 1750 strokes/minute
Timer	Digital display in minutes:seconds (max 20:00)
USB port	Run history is recorded and can be exported
Voltage	115 V/60 Hz or 230 V/50 Hz
CE Approved	Yes
Dimensions	14 in (35.6 cm) wide x 22.5 in (57.2 cm) deep x 28 in (71.1 cm) high
Net Weight	100 lb (45.5 kg)
Motor	1/2 hp
Power Cord	3-prong grounded plug, 115 V/60 Hz or 2-prong grounded plug, 230 V/50 Hz



2050 Genomax®
Automated Tissue Homogenizer
and Cell Lyser



2051 and 2052 Adjustable Clamps

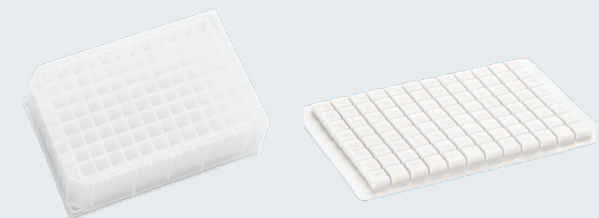
Available Clamps for Genomax

The 2051 Vial Clamp holds a wide range of vials sizes, tubes, and jars, and comes standard with purchase of a Genomax. The 2052 Titer Plate Clamp holds up to 6 deep-well plates and ensures that no leakage occurs during the homogenization process. A quick locking system allows for easy installation and removal of the clamp.

Order now and receive a 2052 Titer Plate Clamp for free, in addition to the supplied 2051 Vial Clamp (a \$1,600 value)!

New accessories for the 2052 Titer Plate Clamp

Our new **2205-50 reinforced titer plate** and **2206-50 cap-mat** are designed to withstand bead beating.



**2205-50 reinforced titer plate
and 2206-50 cap-mat**

DNAmax Kits

The Spex Genomic DNA Isolation Kits are optimized to work with the Genomax and allows for fast and seamless isolation of DNA from a wide variety of animal tissues and cells, including mammalian, poultry, and fish, and soft and tough plant tissue.

The kit combines the use of chaotropic salts and detergents to disrupt animal tissues or cells permitting the selective binding of the DNA to a silica column. Proteinase K and RNase A are then added to implement DNA isolation. An ethanol wash buffer is used to remove any additional elements or contamination from the silica column. The column is dried by centrifugation and DNA is eluted using the elution buffer.

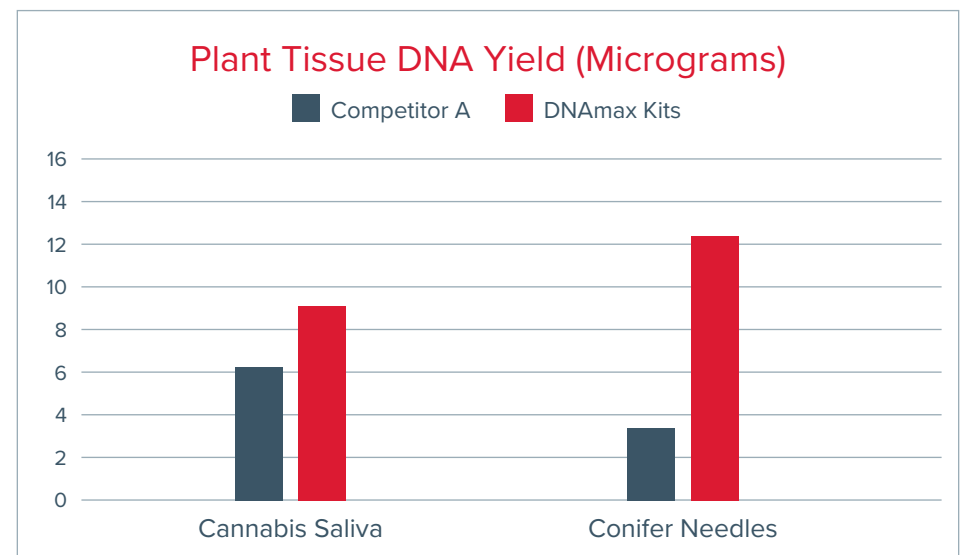
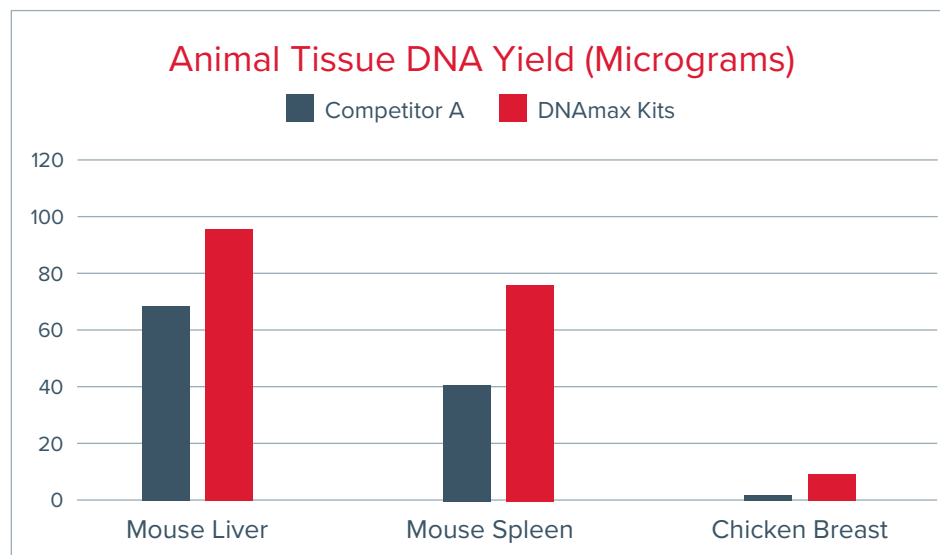


DNAmax Isolation Kit

Free sample kits for animal and plant tissue are available, [order yours here](#).

DNA Yield

DNA yield from various tissues when using the DNAmax Isolation Kit for animal tissue and plant tissue vs. a leading competitive kit. All samples were homogenized using the Geno/Grinder.



Ordering Information

EQUIPMENT

Product Name	Part Number
2050 Genomax, 115 V	2050-115
2050 Genomax, 230 V	2050-230

ACCESSORIES

Product Name	Part Number
Clamps	
Genomax Adjustable Clamp for Vials, Tubes and Jars <i>(included with purchase of Genomax)</i>	2051
Genomax Adjustable Clamp for Titer Plates <i>(purchased separately)</i>	2052
Holders	
5 mL Vial Holder	2191
2 mL Microcentrifuge Tube Holder	2300
Nesting Trays, set of 4	2052T
Kryo-Tech Accessories	
Cryoplate	2189C
Cryo-Station	2600
Cryo-Blocks	
Cryo-Block for 5 mL Polyethylene Vials	2663
Cryo-Block for 96 Microcentrifuge or PCR Tubes	2665
Cryo-Block for 48 Microcentrifuge or PCR Tubes	2666
Vials and Vial Sets	
5 mL Pre-Cleaned Frosted Polyethylene Vial Set, 10 pk.	2240-PEF
5 mL Frosted Polyethylene Vial, 200 pk.	2241-PEF-200
2 mL Polypropylene Skirted Disruption Tubes and Caps, 500 pk.	2300-500E
2 mL Pre-Loaded Polypropylene Microfuge Tube with 100 μ m Molecular Biology Grade Silica Beads	2301-100MB
2 mL Pre-Loaded Microfuge Tube with 600 mg of 100 μ m Acid Washed Zirconia Beads	2302-100AW2
2 mL Pre-Loaded Microfuge Tube with 1 mm Acid Washed Zirconia Beads	2302-1000AW

Product Name	Part Number
Vials and Vial Sets Continued	
2 mL Pre-Loaded Microfuge Tube with 1.4 mm Acid Washed Zirconia Beads	2302-1400AW
2 mL Pre-Loaded Microfuge Tube with 1.7 mm Acid Washed Zirconia Beads	2302-1700AW
2 mL Pre-Loaded Microfuge Tube with 3 mm Acid Washed Zirconia Beads	2302-3000AW
2 mL Pre-Loaded Microfuge Tube with 6 mm Ceria Stabilized Zirconia Beads	2302-6000AW
2 mL Pre-Loaded Microfuge Tube with 500 µm Garnet and a 6 mm Zirconia Grinding Satellite	2303-MM1
2 mL Pre-Loaded Microfuge Tube with 800 µm and 1.4 mm Acid Washed Zirconia Beads	2303-MM2
2 mL Pre-Loaded Microfuge Tube with 100 µm Silica Beads, 1.4 mm Zirconia Beads and a 4 mm Silica Bead, Acid Washed	2303-MM3
2 mL Pre-Loaded Microfuge Tube with 100 µm Acid Washed Silica Beads	2304-100AW
2 mL Pre-Loaded Microfuge Tube with 400 µm Acid Washed Silica Beads	2304-400AW
2 mL Pre-Loaded Microfuge Tube with 800 µm Acid Washed Silica Beads	2304-800AW
2 mL Pre-Loaded Microfuge Tube with 2.8 mm Stainless Steel Grinding Beads	2305-2800SS
2 mL Reinforced Polypropylene Microfuge Tube	2310
Titer Plates and Cap-Mats	
96 Square Well Reinforced Titer Plate, 50 pk.	2205-50
Cap-Mat for 2205, 50 pk.	2206-50
Grinding Media	
Stainless Steel Grinding Balls, 5/32 in (4 mm)	2150
Silica Grinding Beads, 800-1,000 µm	2160
Low Binding Silica Beads, 800 µm	2162
Silica Grinding Beads, 400-660 µm	2165
Silica Grinding Beads, Molecular Biology Grade, 400-600 µm	2166
Low Binding Silica Beads, 400 µm	2167
Low Binding Silica Beads, 100 µm	2168
Zirconia Grinding Beads, Molecular Biology Grade, 200-400 µm	2180
Low Binding Zirconium Beads, 100 µm	2181
Low Binding Zirconium Beads, 200 µm	2182
3 mm Acid Washed Zirconia Grinding Beads	2302-30

Product Name	Part Number
DNAmx Kits	
DNA Isolation Kit for Animal Tissue, 75 reactions	2401M
DNA Isolation Kit for Animal Tissue with Stabilization Buffer, 75 reactions	2401MS
DNA Isolation Kit for Soft Plant Tissue, 75 reactions	2402P
DNA Isolation Kit for Tough Plant Tissue, 75 reactions	2402PT
DNA Isolation Sample Kit for Animal Tissue, 6 reactions	2401M-SAMP
DNA Isolation Sample Kit for Animal Tissue with Stabilization Buffer, 6 reactions	2401MS-SAMP
DNA Isolation Sample Kit for Soft Plant Tissue, 6 reactions	2402P-SAMP
DNA Isolation Sample Kit for Tough Plant Tissue, 6 reactions	2402PT-SAMP

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