2010

Geno/Grinder®

Instrument Solutions

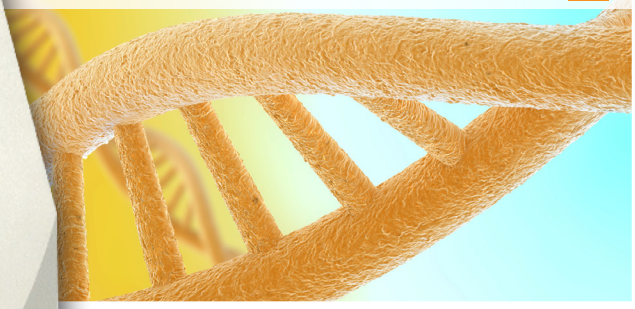
Technology for Your Success!

Mixing and Blending

Grinding and Pulverizing

Tissue Homogenization Cell Lysis

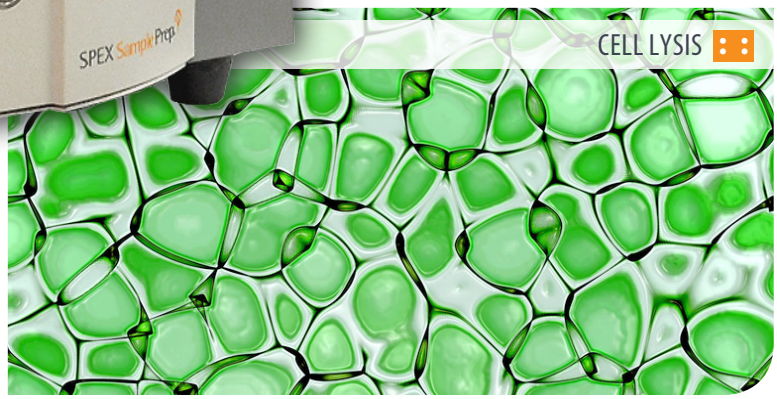
DNA / RNA RESEARCH



CROP SCIENCE

FOOD SAFETY

CELL LYSIS



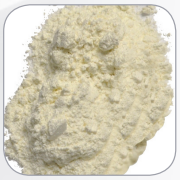
SPEX® SamplePrep®

SAMPLE TYPES: ANIMAL TISSUE • PLANT TISSUE • VEGETABLES • FRUIT

SEEDS

BEFORE

AFTER



ANIMAL TISSUE

BEFORE

AFTER

FRUIT

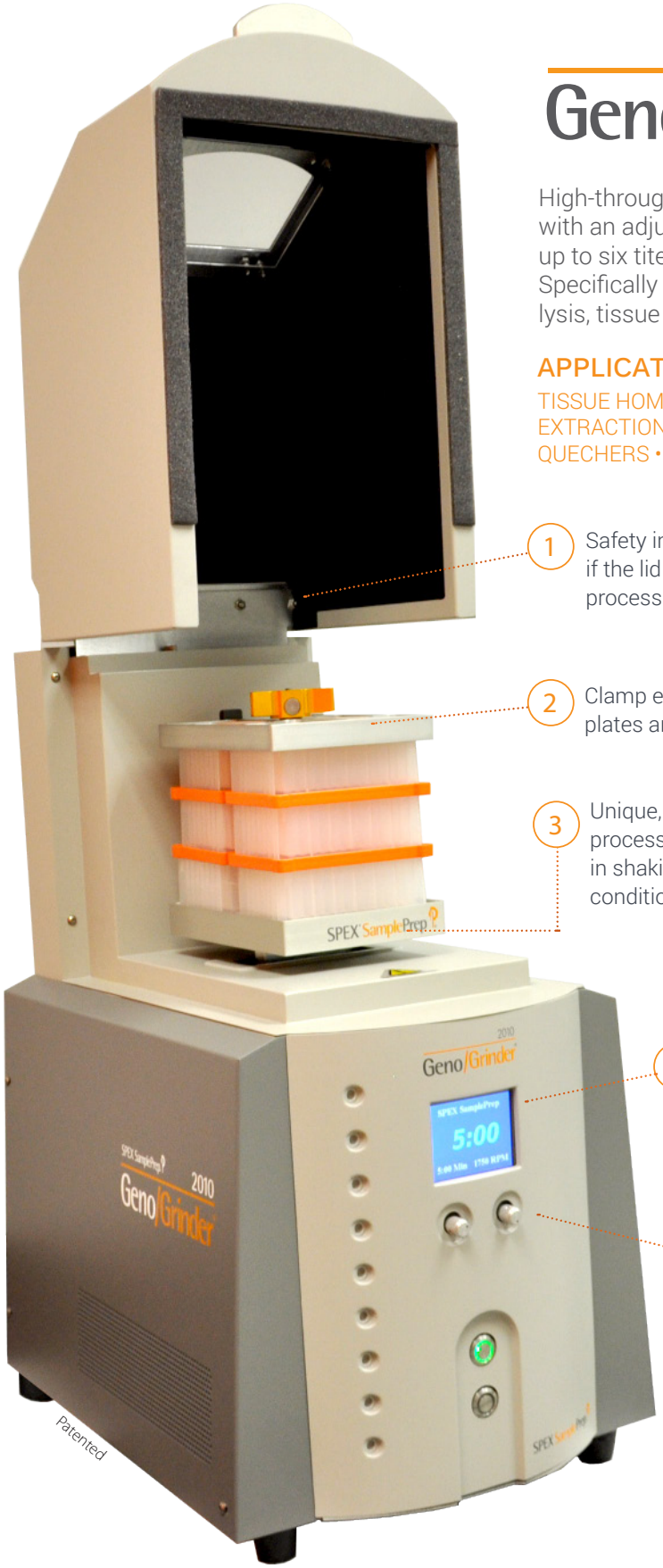
BEFORE

AFTER

CORN

BEFORE

AFTER



2010

Geno/Grinder®

High-throughput plant & tissue homogenizer with an adjustable clamp that accommodates up to six titer plates or 16 centrifuge tubes. Specifically designed for rapid cell disruption, lysis, tissue homogenization and QuEChERS.

APPLICATIONS

TISSUE HOMOGENIZATION • PESTICIDE RESIDUE EXTRACTION • DNA/RNA EXTRACTION CELL LYSIS QUECHERS • PROTEIN EXTRACTION • BIOFUELS

1. Safety interlock switch stops the motor if the lid is opened during the grinding process.
2. Clamp easily adjusts to fit 6 deep well titer plates and up to sixteen 50 mL tubes.
3. Unique, vigorous, vertical pulverizing motion processes samples thoroughly. No variation in shaking process ensures equal mixing conditions for samples.
4. LCD screen displays the full timer setting and the time remaining in the grinding cycle in a minute: second format.
5. Simple rate and timer controls that allow you to adjust the speed and set the time.

Scan the QR code to see videos of the 2010 Geno/Grinder® in action or visit www.youtube.com/sampleprep.

2010 GENO/GRINDER® ACCESSORIES

ADJUSTABLE CLAMP

Easily adjusts to fit titer plates and vials

: : Features a release button that slides the clamp lid up and down the shaft. 2199 standard clamp assembly is still available.

NESTING TRAYS

Ideal for stacking titer plates

: : Used for stacking titer plates vertically and keeping samples secure during the grinding process.

PRE-LOADED VIALS

Used in a wide range of applications

: : These 2mL vials are ideal for grinding complex samples like bacteria, small yeast and soil.

TITER PLATES & CAP-MATS

Available in 24, 48 and 96-well formats

: : Used for many applications such as large sample dilutions, cell suspension & RNA extractions.

VIAL SETS & CENTRIFUGE TUBES

Great alternative to titer plates

: : Holds samples larger than those traditionally placed in titer plates. Vial sets also come pre-loaded.

GRINDING MEDIA

Stainless steel, silica, zirconia and ceramic

: : Grinding media aids in the mixing and homogenizing of samples. Beads are available in 3 grades: Molecular biology, low binding and acid washed. Ceramic cylinders aid the QuEChERS method.

KRYO-TECH® GRINDING ACCESSORIES

Our Kryo-Tech® Accessories offers a solution for preserving pesticides, RNA or proteins while being ground in the 2010 Geno/Grinder.® Our Cryo-Blocks are designed to be chilled in the 2600 Cryo-Station. Vials or titer plates containing temperature-sensitive samples are placed in the Cryo-Blocks and then put directly into the Geno/Grinder®. Tissue samples can be maintained at subzero temperatures during grinding to increase yields.

- : : Especially useful for preserving RNA and proteins.
- : : Holds and chills titer plates and vials.
- : : Maintains tissue samples at subzero temperatures during grinding.
- : : Ensures the best possible way to stabilize yields for heat-sensitive extraction methods.

THE ULTIMATE CRYOGENIC GRINDER

Freezer/Mill®

Our Freezer/Mills are programmable cryogenic laboratory mills that cool samples to cryogenic temperatures, then pulverize them by magnetically shuttling a steel impactor back and forth against two stationary endplugs. Each mill has a touch screen control panel with several grinding programs for simple and fast recall.

SAMPLE TYPES: Animal tissue • Plant tissue • Polymers • Pharmaceuticals Yeast • Food Products • Electronic Components • Textiles • Hair • Bone

APPLICATIONS: DNA/RNA extraction • Yeast Analysis • RoHS/WEEE Drug Testing • Forensics • Polymer Testing • Food Testing

- Four models available:
  - 6770 Freezer/Mill® for samples from 0.1 – 5 g
  - 6870 Freezer/Mill® for samples from 0.1 – 100 g
  - 6870D Freezer/Mill® for samples from 0.1 – 100 g (per chamber)
  - 6970D Enclosed Freezer/Mill® for samples from 0.1 – 100 g (per chamber)

For more information visit www.spexsampleprep.com/freezermill

Scan the QR code to see the Freezer/Mill in action, or visit www.youtube.com/sampleprep

GENO/GRINDER® APPLICATION NOTES

For more application notes on the 2010 Geno/Grinder® please visit www.spexsampleprep.com/appnotes.

- Effect of Lysis Time and Other Variables on DNA Extraction from Fresh Basil Lysed in 2mL Tubes with the Geno/Grinder® **(#SP017)**
- Mechanical Disruption for High-Throughput Fatty Acid Extraction from Animal Tissue Samples **(#SP001)**
- The Benefits of the Geno/Grinder® High-Throughput Tissue Homogenizer to Increase Sample Throughput for Pesticide Residue Analysis by LC/MS/MS **(#SP022)**
- High-Throughput Disruption of Yeast in a 96-Well Format **(#SP018)**

Your Science is Our Passion.™

SPEX® SamplePrep®

SPEX SamplePrep , LLC
65 Liberty Street
Metuchen, NJ 08840

Tel: 732.623.0465
Fax: 732.906.2492
855.438.7739 (855.GET.SPEX)
E-mail: sampleprep@spex.com
www.spexsampleprep.com

European Division
SPEX CertiPrep Ltd
2 Dalston Gardens
Stanmore, HA7 1BQ, UK
Tel: +44 (0)20 8204 6656
Fax: +44 (0)20 8204 6654
E-mail: sales@spexcertiprep.co.uk
Web: www.spexsampleprep.com

DEMO PROGRAM: TRY IT BEFORE YOU BUY IT!

SPEX SamplePrep gives you the opportunity to try out our sample preparation equipment in your laboratory for one week. Best of all, our demo program is COMPLIMENTARY! Once you try our quality products you'll ask yourself how you ever lived without them.

For more information please call 1-855-GET-SPEX or visit www.spexsampleprep.com/genogrinder.

© SPEX SamplePrep 2014