2010 GENO/GRINDER®

Mixing and Blending

Grinding and Pulverizing

The Ultimate Tool for the QuEChERS Method

- **Higher throughput** — shakes up to 16 samples simultaneously vs 2-4 by hand.
- **Increased recovery of pesticide residue** in fruits and vegetables. The vigorous mixing action of the Geno/Grinder® results in thorough extraction.
- **No variation in shaking process** — Ensures equal mixing conditions for all samples, which cannot be guaranteed when samples are shaken manually.
- **Versatile**—Accommodates a variety of tube sizes and shapes.
- **Perfect for grinding at room temperature and at low temperatures.** We offer Kryo-Tech® accessories for the Geno/Grinder® allowing you to preserve temperature sensitive compounds during the grinding process.

See why the Geno/Grinder is perfect for the QuEChERS method!

Scan this code with the QR Reader on your smart phone or visit www.youtube.com/user/sampleprep

www.spexsampleprep.com/genogrinder
Call us at 1-855-GET-SPEX

SPEX SamplePrep®

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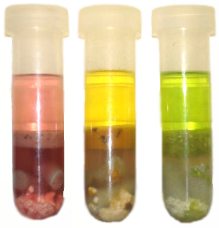
Pesticide Recovery Study Using the Geno/Grinder®



Samples of strawberry, apple and celery were spiked with 5 ppm of pesticide blend from SPEX CertiPrep and prepared according to standard AOAC method 2007.01. One set of samples from each fruit/vegetable type was shaken by hand, while the other set was mixed on the Geno/Grinder using 2-3 ceramic grinding cylinders per tube. Following centrifugation and clean up, the samples were evaporated to near dryness, then brought to a volume of 1 ml in toluene and analyzed by GC-MS.

For all pesticides detected, higher recoveries were obtained for the samples prepared using the Geno/Grinder® than for those prepared by hand. Several pesticides were undetected in samples prepared manually, but were recovered when the Geno/Grinder was used to shake the samples.

The Geno/Grinder is also useful in other food analysis applications, such as extraction of antibiotics in fish, mycotoxins in agricultural products, dyes to enhance the color of fresh fish and meat products, and genomic RNA and DNA. Samples can be processed at ambient temperature or at low temperature using Kryo-Tech® accessories.

For more information regarding the 2010 Geno/Grinder® and available accessories, please visit www.spexsampleprep.com/genogrinder.

Accessories for QuEChERS Method

Holders for standard 50 ml Centrifuge Tubes

- Holds 16 standard 50 ml centrifuge tubes
- Thick, rugged polyethylene material ideal for multiple uses

Ceramic Grinding Cylinders

(3/8" x 7/8" angle cut)

- Aids mixing and homogenization of sample during extraction step
- 2 cylinders per tube are recommended

SPEX CertiPrep®

Pesticide Standards

SPEX CertiPrep, provides pre-made pesticide standards that help to streamline your testing process. We offer several stock pesticide mixes, including a kit with the most common pesticide standards (Part# PCB-KH), along with a large list of over 4,000 individual compounds. Custom pesticide blends can be manufactured to your specifications.

For more information call **1-800-LAB-SPEX** or visit **www.spexcertiprep.com**

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Your Science is Our Passion.®