

Resource Summary Report

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Cole-Parmer: GenoGrinder High Throughput Sample Homogenizer (SPEX)

RRID:SCR_019966

Type: Tool

Proper Citation

Cole-Parmer: GenoGrinder High Throughput Sample Homogenizer (SPEX)
(RRID:SCR_019966)

Resource Information

URL: <https://www.spexsampleprep.com/2010genogrinder>

Proper Citation: Cole-Parmer: GenoGrinder High Throughput Sample Homogenizer (SPEX) (RRID:SCR_019966)

Description: Geno/Grinder is an automated high-throughput plant & animal tissue homogenizer and cell lyser. It is equipped with an adjustable clamp that accommodates a full range of sample vials from 2mL to 50mL centrifuge tubes or up to six deep-well titer plates. It is specifically 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 new model Geno/Grinder incorporates a password protected, touch screen control panel, enabling the user to program run time, rate, cycles and pause time. A full range of Kryotech accessories are available to preserve temperature sensitive samples such as proteins and RNA. The Geno/Grinder is also recognized as an excellent automatic axial extractor. It is the best tool for the QuEChERS method used for extracting pesticide residues and other organic compounds. The Geno/Grinder enables increased throughput, improved extraction efficiency and reproducibility over traditional sample preparation methods. A full range of pre-loaded sample vials for different sample types is also available for fast and set up.

Resource Type: instrument resource

Keywords: SPEX Sample Prep, Genetic Analyzer, Instrument Equipment, USEDit

Availability: Commercially available

Specification URL: https://raw.githubusercontent.com/SciCrunch/RRID-Instruments/main/PDF/SCR_019966.pdf

Resource Name: Cole-Parmer: GenoGrinder High Throughput Sample Homogenizer (SPEX)

Resource ID: SCR_019966

Alternate IDs: Model_Number_GenoGrinder

Record Creation Time: 20220129T080347+0000

Record Last Update: 20260725T190920+0000

Ratings and Alerts

No rating or validation information has been found for Cole-Parmer: GenoGrinder High Throughput Sample Homogenizer (SPEX).

No alerts have been found for Cole-Parmer: GenoGrinder High Throughput Sample Homogenizer (SPEX).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Frankhouser DE, et al. (2025) Randomized dose-response trial of n-3 fatty acids in hormone receptor negative breast cancer survivors - impact on breast adipose oxylipin and DNA methylation patterns. The American journal of clinical nutrition, 122(1), 70.

Abbattista R, et al. (2024) Unveiling the "hidden quality" of the walnut pellicle: a precious source of bioactive lipids. Frontiers in plant science, 15, 1395543.

Celia-Sanchez BN, et al. (2024) Pan-azole- and multi-fungicide-resistant Aspergillus fumigatus is widespread in the United States. Applied and environmental microbiology, 90(4), e0178223.

Frankhouser DE, et al. (2024) Randomized dose-response trial of n-3 fatty acids in hormone receptor negative breast cancer survivors- impact on breast adipose oxylipin and DNA methylation patterns. medRxiv : the preprint server for health sciences.

Gao B, et al. (2022) Correlation between Serum Steroid Hormones and Gut Microbiota in Patients with Alcohol-Associated Liver Disease. Metabolites, 12(11).

Deepak HB, et al. (2022) Effect of baricitinib in regulating programmed death 1 and ligand programmed cell death ligand 1 through JAK/STAT pathway in psoriasis. Indian journal of pharmacology, 54(3), 183.

Hore TK, et al. (2022) Introgression of tsv1 improves tungro disease resistance of a rice variety BRRI dhan71. Scientific reports, 12(1), 18820.

Hughes RL, et al. (2021) Resistant Starch Type 2 from Wheat Reduces Postprandial Glycemic Response with Concurrent Alterations in Gut Microbiota Composition. Nutrients, 13(2).

Ismail IT, et al. (2020) Remodeling Lipids in the Transition from Chronic Liver Disease to Hepatocellular Carcinoma. Cancers, 13(1).

Gautam M, et al. (2018) Maize root culture as a model system for studying azoxystrobin biotransformation in plants. Chemosphere, 195, 624.

Box MS, et al. (2011) Protocol: A simple phenol-based method for 96-well extraction of high quality RNA from Arabidopsis. Plant methods, 7, 7.