



Three-Dimensional Sample Grinder
Model: JXFSTPRP-4D



Product Overview

The JXFSTPRP-4D Three-Dimensional Sample Grinder (patented product, counterfeiting will be prosecuted! ZL2019220728715) features a fast, efficient, multi-tube system capable of extracting and purifying original DNA, RNA, and proteins from any source, including soil, plant and animal tissues/organs, bacteria, yeast, fungi, spores, and paleontological specimens.

Operation principle

1. Place the sample and grinding balls into the grinder (equipped with grinding jars or centrifuge tubes/adapters).
2. Under high-frequency oscillation, the grinding balls rapidly collide and rub within the grinder, breaking cells, homogenizing, and disrupting cell walls in a very short time.
3. Quickly release original DNA, RNA, and proteins, facilitating subsequent extraction and purification.

Application scope

1. Suitable for grinding and crushing in food and pharmaceutical ingredient analysis and testing.
2. Suitable for grinding and crushing various plant tissues (roots, stems, leaves, flowers, fruits, seeds, etc.) and samples of fungi and bacteria.
3. Suitable for grinding and crushing various animal tissues, including brain, heart, lungs, stomach, liver, thymus, kidneys, intestines, lymph nodes, muscles, and bones.



Product characteristics



Flexible parameters

Controlled by microprocessor technology, various reagent kits can be customized, 5.7-inch color touch screen, simple and convenient program setting (99 programs can be saved)



Professional and efficient

The sample crushing and lysis time is short, avoiding nucleic acid degradation and protein denaturation, and ensuring the integrity of the extracted nucleic acid or protein. The patented low-speed ultra-long continuous operation function (UP TO 30MIN) is suitable for library cloning and sequencing of the whole gene



Zero sample pollution

The operation process is in a fully closed state to avoid cross-contamination between samples and external pollution



Good stability

Unique fastening mechanism, fixed sample tube operation is easier. Fast program call, running noise ≤54DB



High safety and easy maintenance

Using brushless variable frequency motor, no carbon particles will be generated, and no carbon brushes need to be replaced. Long life, no wearing parts, all stainless steel inner cavity, more convenient cleaning and disinfection, and no need for auxiliary treatment of hazardous materials such as liquid nitrogen



技术参数 TECHNICAL PARAMETER

Time setting	1-9999s
Sample Processing Volume	24*2ML/12*5ML
Oscillation Speed	1-21M/S
Program Groups	10
Lid Opening Method	Intelligent Start
Anti-Pinch Function	Yes
Automatic Center Positioning Fastening Device	Yes
Safety Protection	Working Safety Lock
Noise Level:	<54DB
Power	400w
Voltage	AC 220V/50-60Hz
Dimensions	400*320*430MM
Weight	33KG

配件展示 ACCESSORIES DISPLAY



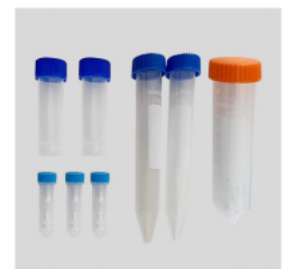
Adapter



Stainless steel grinding beads



Zirconia grinding beads



Centrifuge tubes are available in 2ml, 5ml or 50ml

研磨效果对比图 COMPARISON OF GRINDING EFFECT



Orange Leaves



Muscle



Yeast



Hair