



# MGIEasy

## Tissue Grinding Beads (Prepacked)

### Instructions for Use

Version: 2.0

**For Research Use Only.  
Not for use in diagnostic procedures.**

Wuhan MGI Tech Co., Ltd.

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## About the instructions for use

**MGI intends to provide this product solely for research use.**

This instructions for use is applicable to MGIEasy Tissue Grinding Beads (Prepacked). The version of the instructions for use is 2.0 and the product version is V1.0.

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## Revision history

Version	Date	Description
2.0	June 5, 2024	Add the recommended device and consumables
1.0	March 4, 2024	Initial release

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# Chapter 1 Introduction

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## 1.1 Product name

MGIEasy Tissue Grinding Beads (Prepacked)

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## 1.2 Specification

Catalog number	Specification
940-001914-00	864 RXN/kit

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## 1.3 Product description

MGIEasy Tissue Grinding Beads (Prepacked) is made of 0.55 mm to 1 mm silica sand. The beads are small with random shapes. They can crush, refine, and homogenize samples such as animal tissues, cells, microorganisms, soil and, stool, and break cell walls and cell membranes to release DNAs and RNAs for downstream extraction and purification.

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# Chapter 2 Basic information

The basic information of this product is as follows:

**Table 1 Product information**

Product name	MGIEasy Tissue Grinding Beads (Prepacked)
Material	Silica sand
Color	White
Main component	SiO <sub>2</sub>
Particle size	0.55 mm to 1 mm
Validity period	24 months
Storage condition	2 °C to 30 °C
Applicable sample	Animal tissue, cell, microorganism, soil, stool



CAUTION Do not freeze or burn the beads.

## Chapter 3 Operations

### 3.1 Workflow



Figure 1 Workflow

### 3.2 Preparing materials

Table 2 Recommended materials

	Name	Recommended brand and catalog number	Recommended parameter
Device	Grinder	thmorgan, Cat. No.: CK1000	1,500 rpm, 5 minutes
	Thermal Microplate Sealer	Agilent, Cat. No.: G5585B	181 °C±1 °C , 2 seconds
Reagent	MGEasy Tissue Grinding Beads (Prepacked)	MGI, Cat. No.: 940-001914-00	/
Consumable	Peelable Aluminum Seal	Baoli, Cat. No.: 091-000362-00	/

### 3.3 Grinding samples

This section takes the stool sample as an example.

Perform the following steps:

1. Take out the deep-well plate containing the tissue grinding beads from storage.
2. Tear off the heat-sealing film.
3. Add an appropriate volume of the stool sample into the deep-well plate containing the tissue grinding beads and seal the plate with the heat-sealing film and the sealer.
4. Place the plate into a grinder and grind the stool sample for 5 minutes at 1,500 rpm.

5. After grinding, use the ground sample to perform subsequent experiments.

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### 3.4 Performing subsequent experiments

Take out the ground sample, and place them into MGISP-NE384RS Automated Nucleic Acid Extractor or other similar devices to perform subsequent experiments.

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## Chapter 4 Warnings and precautions

- This product is for research use only. Please read the instructions for use of the product carefully before use.
- All reagents should be used according to the requirements after being taken out from the prescribed storage conditions. Mix the reagents before use.
- To ensure the accuracy, use a pipette in an appropriate volume range to add reagents.
- Direct contact with skin and eyes should be avoided for all samples and reagents. Do not swallow. If accidental ingestion occurs, please get medical attention immediately. If skin exposure occurs, rinse with large amounts of water and get medical attention if irritation persists.

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## Appendix 1 Manufacturer information

Manufacturer	Wuhan MGI Tech Co., Ltd.
Address	Building 24, Stage 3.1, BioLake Accelerator, No.388, 2nd Gaoxin Road, East Lake High-Tech Development Zone, 430075, Wuhan, P.R. China
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Website	en.mgi-tech.com



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## Appendix 2 Research use only

MGI has labeled the product solely for research use only and specified “RS” in the model name which means it should not be used for clinical diagnosis. Please refer to FDA Guidance, Distribution of In Vitro Diagnostic Products Labeled for Research Use Only or Investigational Use Only (Nov. 2013) (available at: <https://www.fda.gov/media/87374/download>). If you have any question, please contact MGI at +86-4000-688-114.

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