GENAXXON bioscience

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Ceramic beads
for tissue lysis

Product	Cat#	Package size
Ceramic beads for tissue lysis	**S5310.0100**	**1x 100 tubes**
Ceramic beads for tissue lysis	**S5310.0500**	**5x 100 tubes**

Product description

Each 2mL tube contains 1g of ceramic spheres for homogenization. The bead diameter is in a range of 1.2 to 1.4mm.

Bead-beating tubes pre-filled with ceramic spheres are used primarily for lysis of softer tissue like brain, liver, kidney. lung, and spleen. Also used to lyse plant tissue such as leaves, roots, and fruits, as well as cultured cells and whole insects. They are chemically inert and will not bind nucleic acids. They are compatible with most commercially available homogenizers, like FastPrep® (MP Biomedicals).

Applications

Lysis of softer tissue like brain - liver - kidney - lung - spleen

Lysis of plant tissue such as leaves - roots - fruits

Lysis of insects

Applications examples

Sample		Tube Size	Sample Size	Buffer volume
Plant parts		2mL	50mg	600µL
Bacterial colony		2mL	colony	600µL
Soft Animal Tissue Homogenization: Liver/Brain		2mL	20mg	600µL
Fibrous Animal Tissues: Muscle/Heart/Lung		2mL	20mg	600µL

Animal tissues that contain a significant amount of collagen such as skin, sclera, and cartilage are very difficult to homogenize by any method. To effectively homogenize these elastic tissues, the mass of the sample needs to be very small relative to the grinding media and vessel. Samples less than 20 mg are best processed in a 2mL/4mL polycarbonate vial.

Sample		Tube Size	Sample Size	Buffer volume
Elastic Animal Tissue Homogenization: Skin/Sclera/Cartilage		2mL	<20mg	600µL

Process the samples as stated in the table. Heat is generated during processing, so it is possible that samples may warm and thaw by the end of processing.

Homogenized tissue can be stored frozen or thawed and used.

Storage: at +15°C to +30°C

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