

Bead Homogenization Overview

Choosing the correct homogenization bead:

The homogenization beads should be proportional to the size of your sample. When homogenizing very small samples, such as yeast, cell culture or small pieces of tissue, the smallest beads (0.5mm or below) would be recommended. When working with larger samples (large pieces of tissue, plants, seeds, etc.), beads 1.0mm or greater would be recommended.

The tougher the tissue, the denser the bead required. Refer to the known density (g/ml) chart below:

Glass Beads: 2.5 g/ml
Z/rconlum: 5.5 g/ml
Stainless Steel: 7.9 g/ml



Standard Glass beads (Acid Washed)

Availability:

0.1mm (D1031-01)

0.5mm (D1031-05)

1.0mm (D1031-10)

Ideal for small & softer samples (chemically inert, but lowest density)



Triple-Pure™ (Molecular Biology Grade)
Zirconium Beads

Availability:

0.1mm (D1032-01)

0.5mm (D1032-05)

1.0mm (D1032-10)

1.5mm (D1032-15)

3.0mm (D1032-30)

Best Seller:

Chemically Inert,

Triple Pure Cleaning Process Very High Density... High Impact



Standard stainless beads (Acid Washed)

Availability: 2.8mm (D1033-28)

For the most difficult samples (not as chemically inert)

Email: Info@braintreesci.com Web: www.braintreesci.com



Bead Application Chart:

Tissue: Skin Hair Nail Bone Teeth Lung Muscle Liver Brain Heart Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi Bacteria	0.1	0.5	1	•	•	•
Skin Hair Nail Bone Teeth Lung Muscle Liver Brain Heart Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•	•	•
Skin Hair Nail Bone Teeth Lung Muscle Liver Brain Heart Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•	•	•
Hair Nail Bone Teeth Lung Muscle Liver Brain Heart Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•	•	•
Nail Bone Teeth Lung Muscle Liver Brain Heart Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•	•	•
Bone Teeth Lung Muscle Liver Brain Heart Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•	•	•
Teeth Lung Muscle Liver Brain Heart Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•	•	•
Lung Muscle Liver Brain Heart Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•	•	
Muscle Liver Brain Heart Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•	•	•
Liver Brain Heart Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•	•	1
Brain Heart Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•		
Heart Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•	•	
Kidney Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				 	_	
Pancreas Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi						
Fly Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi		<u> </u>		- 1	•	
Tick Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi			i	 	•	
Gonad Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi		i		 		 :
Artery Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi					•	+
Intestine Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•	•	+
Cornea Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				<u> </u>	•	-
Tail Spleen Ear Microbial: Gram + Gram - Yeast Fungi				•	•	
Spleen Ear Microbial: Gram + Gram - Yeast Fungi					•	· ·
Ear Microbial: Gram + Gram - Yeast Fungi					•	•
Microbial: Gram + Gram - Yeast Fungi		<u> </u>		•	•	
Gram + Gram - Yeast Fungi				<u> </u>	•	
Gram - Yeast Fungi		<u> </u>				
Yeast Fungi	•					
Fungi	•	<u> </u>				
		<u> </u>	•			
Bacteria		· ·	•			
	•					
Spores		· ·				
Mold		•	•			
Plant:						
Soft Plant Tissue					•	•
Tough Plant Tissue					•	•
Leaves					•	•
Arabidopsis					•	•
Seeds		l		i	•	•
Corn		İ			•	1 .
Nuts		ĺ			•	•
Rice					•	•
Wheat						•
Stems					•	•
Fecal:						
Stool:				. 1		1
Scat	_		Ì	•	•	7
Soil:						
Soil				. 1		
Coral		<u> </u>	1			•

Web: www.braintreesci.com