Recommended bead types by sample (2 mL)

Sample Type	Sample Toughness	Glass 0.1 mm	Glass 0.5 mm	Garnet 0.15 mm	Garnet 0.7 mm	Ceramic 0.1 mm	Ceramic 1.4 mm	Ceramic 2.8 mm	Metal 2.4 mm
Bacteria or yeast culture	Medium	19-621	19-622			19-632			
Plant leaf, root & stem	Medium-Hard							19-628	19-620
Soft soil, sediment, wastewater	Medium			19-623	19-624				
Stool	Medium					19-632			
GI tract with stool	Medium-Hard					19-636D		19-636D	
Soft tissues — Brain, liver, kidney	Soft						19-627	19-628	19-620
Hard Tissues — Heart, muscle, skin	Medium-Hard							19-628	19-620
Dense biological material — Hair, nails, bone, seeds	Hard-Extra Hard						19-627	19-628	
Viruses	Soft						19-627	19-628	
Tissue containing bacteria (tissue lysed, bacteria intact)	Soft-Medium							19-628	
Fruit & vegetables	Soft-Medium							19-628	19-620

☐ Each individual bead type is a potential option for selected sample type
■ Combined bead types are recommended for use together per sample type

Soft | Soft-Medium | Medium | Medium-Hard | Hard | Extra-Hard
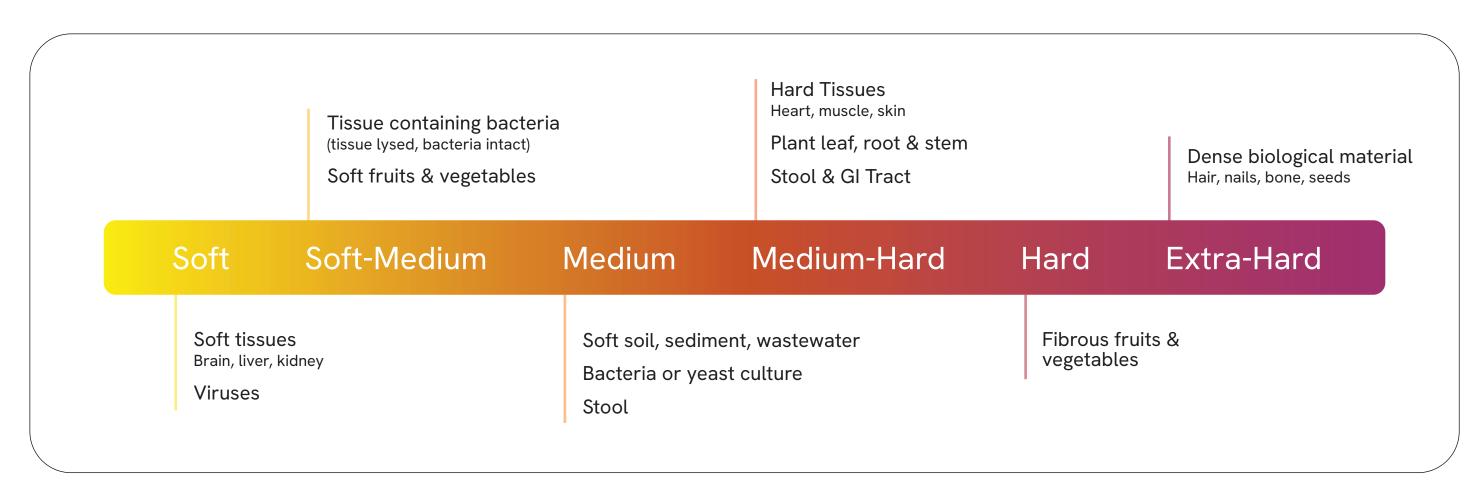
Which homogenizer is right for you?

Omni tube-to-plate automation! (LH 96)

		BR 4	BR 12	BR 24	BR Elite	BR 96+	LH 96
Throughput	Less than 25 samples/week	✓	✓	✓			
	50–400 samples/week			✓	✓	✓	
	500+ samples/week						✓
Tube size	0.5/2 mL Only			✓			
	2/7 mL Only	✓	✓				
	2–50 mL Only				✓		✓
	96 Well Plate					✓	

Recommended tube size by sample volume

Tube Size	Volume Range
0.5 mL	20 µL – 300 µL
1.5 mL	200 µL – 1.5 mL
2 mL	20 µL – 800 µL
7 mL	1 mL – 3 mL
15 mL	2 mL – 10 mL
30 mL	5 mL – 20 mL
50 mL	5 mL – 35 mL

Volume Range scale: 20 µL | 100 µL | 1 mL | 2 mL | 5 mL | 7 mL | 15 mL | 30 mL | 50 mL

Tissue toughness scale
How tough is it to 'rupt' your samples?

Tissue containing bacteria (tissue lysed, bacteria intact)
Soft fruits & vegetables

Hard Tissues — Heart, muscle, skin
Plant leaf, root & stem
Stool & GI Tract

Dense biological material — Hair, nails, bone, seeds

Soft | Soft-Medium | Medium | Medium-Hard | Hard | Extra-Hard

Soft tissues — Brain, liver, kidney
Viruses

Soft soil, sediment, wastewater
Bacteria or yeast culture
Stool

Fibrous fruits & vegetables

Validate your choice with real data— browse our app note database.

For application specific inquiries, please email **hmg-sales@revvity.com**

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