

Multi-beads Shocker

Rapid Pulverizer (3D Figure-Eight Rotation Movement Technology)

MBS3200USY(S) / MBS3200USYC(S)

MADE
IN
JP

SAMPLE APPLICATIONS

PIG FEMUR PULVERIZATION

MBS model	MBS3200USY(S)
Sample holder	YK-MSH004(S)UY
Sample tube	YK-ST5010PCR (50ml) polycarbonate
Metal rod	YK-WC5519R (Tungsten Carbide, 190g)
Sample	Pig femur (1.11g)



Pig femur Metal rod



PULVERIZATION IN SECONDS!

ROOM TEMPERATURE

3000 rpm

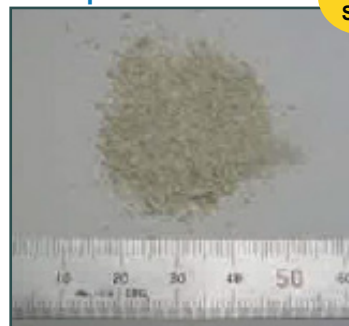
2
SEC



FIRST CYCLE

3000 rpm

2
SEC



SECOND CYCLE

2000 rpm

2
SEC



THIRD CYCLE

1500 rpm

15
SEC

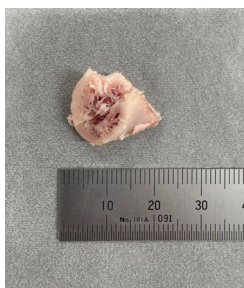


FOURTH CYCLE

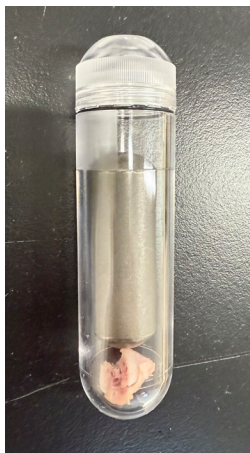
PIG RIB PULVERIZATION

PULVERIZATION IN SECONDS!

ROOM TEMPERATURE



Holder	YK-MSH004(S)UY
Tube	YK-ST5010PCR (50ml) polycarbonate
Metal rod	YK-WC5019R (Tungsten Carbide, 190g)
Volume	1g



BEFORE



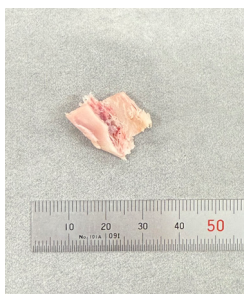
AFTER

3000 rpm

2
SEC



UNDER LIQUID NITROGEN CONDITIONS



Holder	YK-MSH004(S)UY
Tube	YK-ST5010PCR (50ml) polycarbonate
Metal rod	YK-WC5038R (Stainless Steel)
Volume	1.2g



BEFORE



AFTER

3000 rpm

5
SEC



Procedure for freeze-pulverizing under liquid nitrogen conditions



Place the sample and metal rod in the tube



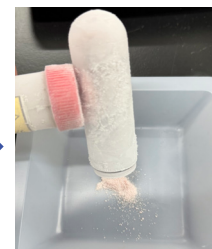
Cool in liquid nitrogen for 5 minutes



Multi-beads Shocker
3000 rpm
5 sec pulverizing



After pulverizing, attach magnet to the tube to hold the metal rod



Remove sample from the tube