BMIX-100, Bead Beater

Main Features:
- Fast and e-ient disintegration of samples
- Suitable for qPCR
- Used in microbiology, biotechnology, veterinary, chemistry, geology, metallurgy, ecology...

BMIX-100 developed for scientists, who need efficient disruption of small amounts of sample.

Easy to use:
One knob controller together with bright LED display is simple to use and gives all important information at once.

Powerful & Quick:
Broad range of standard and custom designed tube holders makes BMIX-100 as a suitable tool for dedicated scientific work as well as daily routines. Efficient disintegration, homogenization and mixing in second.

Most Advanced Technology:
Powerful DC brushless motor, which is controlled by digital processor, needs no maintenance.

Broad range of jars & tube holders:
- Largest Jar capacity 2 x 50 ml
- Hard steel & stainless steel jars
- Tungsten Carbide jar
- Rounded PTFE Jars
- Special adaptors by customer requests available.

Applications:
BMIX-100 is useful tool for disintegration of many materials and can be used on different fields of science: microbiology, biotechnology, medicine, veterinary, chemistry, geology, metallurgy...

Positive Examples with our DNA kits:
- Airborne pathogen transmission
- Detection of Mycobacterium tuberculosis in the Air
- Detection of Avian Influenza Virus in Surface Water
- Direct Detection of Pathogens in Food and Water
- Prevent biofilm growth in the distribution systems
- High-yield DNA/RNA extracting method.
- Detection of bacterial genera like: Acinetobacter, Campylobacter, Gallionella, Rhizobiales, Rhodococcus, Microbacterium , and classes like Xanthomonadaceae, Rhodocydaceae, Comamonadaceae.

Grinding jar (nominal vol) Sample amount Max. feed size Balls
1.5ml 0.5ml 1mm Ø3mm
5.0ml 2.0ml 2mm Ø7mm
10ml 4.0ml 4mm Ø10mm
25ml 10ml 10mm Ø15mm
50ml 20ml 15mm Ø25mm

INOX Jars
HARD STEEL Jars
PTFE Jars
TUNGSTEN CARBIDE Jars
1.5ml 1.5ml 12 x 0.2ml 25ml
5ml 5ml 12 x 0.2ml
10ml 10ml 6 x 2ml
25ml 25ml 6 x 2ml (new cap tube)
35ml 35ml
50ml

INOX Balls
HARD STEEL Balls
AGATE Balls
GLASS Balls
TUNGSTEN CARBIDE
Ø3mm Ø3mm Ø10mm Ø10μm Ø10mm
Ø5mm Ø5mm Ø10μm Ø20μm
Ø7mm Ø7mm Ø12mm
Ø10mm Ø12mm Ø25mm
Ø25mm Ø25mm

We provide also testing tubes, sizes from 1.5ml, 2.0ml, 5.0ml, 15ml and 50ml.

Applications mostly used by our customers:

Material for examination Field of use Adaptor
Granite, Marble, Clay mineral Geology Stainless steel, 50ml
Chicken bone Biomedicine Stainless steel, 50ml
Slag Metallurgy Stainless steel, 50ml
Titanium dioxide Chemical Industry Tungsten carbide, 25ml
Ceramic compacts Processing of ceramic powders Tungsten carbide, 25ml
Hard material (rust, soil, bacteria, fungi, biofilm) Molecular biology PTFE, 6 x 2ml
Soft material (tissue, blood, food, bacteria, fungi, cell, plant) Molecular biology PTFE, 6 x 2ml
Dry material (rust, soil, food, plant) Molecular biology PTFE, 6 x 2ml
Liquid material (blood, food, skeleton, bacteria, fungi, cell) Molecular biology PTFE, 6 x 2ml
Body fluid samples Medicine PTFE, 6 x 2ml
Human blood Biomedicine PTFE, 6 x 2ml
Dog mastocytoma Biomedicine veterinary PTFE, 6 x 2ml

We are developing new applications in cooperation with our partners on institutes, universities and hospitals. We are also developing applications on customers demands. For detailed applications information please contact our sales department.