TECHNICAL DATA SHEET

ALab™ MX-C Cell Disruptor

Hands-free disruption of up to 8 microtubes · capacity 8 × 2 mL · 0–3000 rpm (adjustable) · constant, controlled shear rate



ALab™ MX-C Cell Disruptor

The ALab™ MX-C is a cell disruptor that prepares cell lysates from cells, yeast, bacteria, algae and fungi in up to 8 microtubes. Image shown for reference.

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SECTION I

Product Overview

The ALab™ MX-C Cell Disruptor disrupts cells, yeast, bacteria, algae, fungi, etc. to prepare cell lysates for further processing. It requires beads for cell disruption. It is durable, reliable and affordable, and offers easy-to-operate, rapid hands-free disruption of up to 8 microtubes. It processes at a constant, controlled shear rate, maintains genome integrity of the biological samples, and facilitates subsequent purification of genomic material.

The MX-C uses a high-speed circumferential vortex and oscillation function with a 4 mm orbital diameter and an adjustable speed range of 0–3000 rpm with a scale speed display; the capacity is 8 × 2 mL. Published power requirements are 200–240 V / 100–120 V, 50/60 Hz, 60 W. It is best suited for research laboratories demanding accurate, reproducible, repeatable results.

SECTION II

Core Advantages

— **Up to 8 microtubes** — easy to operate, rapid hands-free disruption; capacity 8 × 2 mL

— **Genome integrity** — maintains genome integrity; facilitates subsequent purification of genomic material

— **Reproducible results** — for research laboratories demanding accurate, reproducible, repeatable results

— **Constant, controlled shear** — high-speed circumferential vortex and oscillation function

— **Adjustable 0–3000 rpm** — scale speed display; 4 mm orbital diameter

— **Durable and affordable** — durable, reliable and affordable; suitable for all sample types

SECTION III

Specifications

Technical data — MX-C

Specifications	
Brand	ALab™ by ACS Material
Product Name	ALab™ MX-C Cell Disruptor
Model	MX-C
SKU #	ALMXC000
Product Type	Cell disruptor
Functions	Disrupts cells, yeast, bacteria, algae, fungi, etc. to prepare cell lysates for further processing
Mixing motion	High-speed circumferential vortex and oscillation function
Orbital diameter	4 mm
Speed range	0–3000 rpm (Adjustable)
Speed display	Scale
Capacity	8 × 2 mL
Disruption media	Requires beads for cell disruption
Power Requirements	200–240 V / 100–120 V, 50/60 Hz, 60 W
Dimension	127 × 130 × 160 mm
Weight	2.0 kg

Scope of delivery

— Standard configuration: one MX-C main unit.

— Additional items: specify separately in the quotation.

SECTION IV

Applications

Suitable for all sample types: lysis of yeast and fungi; isolation of genomic material from faecal samples, fungi and bacteria samples and soil samples; isolation of PCR-ready genomic DNA from soil samples; DNA & RNA purification; lysis of bacteria; lysis of soft tissues; isolation of genomic DNA; purification of DNA; cell lysis; lysing the cell wall of yeast; breaking hard/brittle samples.

Product value: rapid hands-free disruption of up to 8 microtubes (8 × 2 mL) at a constant, controlled shear rate, with an adjustable 0–3000 rpm speed range, in a 127 × 130 × 160 mm, 2.0 kg instrument. Requires beads for cell disruption. Confirm the tube types against your application requirements before ordering.

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