

TECHNICAL DATA SHEET

ALab™ MX-M Microplate Mixer

Single or double microplates • 0–1500 rpm (double: 0–1000 rpm) • 4.5 mm orbital diameter • brushless DC motor



ALab™ MX-M Microplate Mixer

The ALab™ MX-M is a microplate mixer for holding single or double microplates. Image shown for reference.

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SECTION I

Product Overview

The ALab™ MX-M Microplate Mixer is used for holding single or double microplates. The footprint of the MX-M occupies less bench space and makes the storage easier. It offers high speed and effective mixing for microplates with excellent performance from electronic speed control, and it is widely used in life sciences including microbiology, cell and molecular biology, immunology and biotechnology.

The MX-M uses an orbital shaking movement with a 4.5 mm orbital diameter. The speed range is 0–1500 rpm with a single microplate and 0–1000 rpm with a double microplate, and the max. shaking weight (with accessory) is 0.5 kg. The MX-M uses a maintenance-free brushless DC motor (motor rating input 18 W; motor rating output 10 W). Published electrical specifications are: voltage, 100–240 V at 50/60 Hz; power, 20 W. Tube adapters, a PCR tube adapter, a platform pad, a universal top plate, a single well plate tray kit, and double microplate clamps are listed by catalog number.

SECTION II

Core Advantages

- **Single or double microplates** — 0–1500 rpm with a single microplate, 0–1000 rpm with a double microplate
- **Electronic speed control** — excellent performance; scale speed display
- **High speed, effective mixing** — orbital shaking movement, 4.5 mm orbital diameter, max. shaking weight 0.5 kg (with accessory)
- **Brushless DC motor** — maintenance-free; motor rating input 18 W, output 10 W
- **Wide range of accessories** — adapters for most popular vessels and microtiter plates, used with optional adapters for various mixing applications
- **Space-saving footprint** — occupies less bench space and makes the storage easier; 260 × 150 × 80 mm, 3 kg

SECTION III

Specifications

Technical data — MX-M

Specifications	
Brand	ALab™ by ACS Material
Product Name	ALab™ MX-M Microplate Mixer
Model	MX-M
SKU #	ALMXM000
Shaking Movement	Orbital
Orbital Diameter	4.5 mm
Max. Shaking Weight (with accessory)	0.5 kg
Motor Type	Brushless DC motor
Motor Rating Input	18 W
Motor Rating Output	10 W
Speed Range	Single microplate: 0–1500 rpm; double microplate: 0–1000 rpm
Speed Display	Scale
Voltage, Frequency	100–240 V, 50/60 Hz
Power	20 W
Dimensions	260 × 150 × 80 mm
Weight	3 kg
Permissible Ambient Temperature and Humidity	5–40 °C, 80% RH
Protection Class	IP20

Accessories — MX-M

Accessories		
Model	Cat. No.	Description
VT1.3.1	18900020	Tube adapter, for 48 holes test tubes, Ø6 mm
VT1.3.2	18900021	Tube adapter, for 15 holes test tubes, Ø10 mm
VT1.3.3	18900022	Tube adapter, for 12 holes test tubes, Ø12 mm
VT1.3.4	18900023	Tube adapter, for 8 holes test tubes, Ø16 mm
VT1.3.5	18900024	Tube adapter, for 8 holes test tubes, Ø20 mm
VT1.3.6	18900043	Platform pad, Ø99 mm, multiple small tubes and vessels
VT1.3.8	18900395	Tube adapter, for 24 holes test tubes, Ø10 mm
VT1.3.9	18204185	PCR tube adapter, for 56 test PCR tubes, strips of 8, Ø5 mm (0.1–0.5 mL)
VT1.3.10	18900855	Tube adapter, for 4 holes, Ø28 mm (50 mL)
VT1.3.11	18900862	Tube adapter, 12 × Ø9.8 mm + 12 × Ø6.6 mm + 12 × Ø5 mm (1.5/2.0/0.5/0.2 mL)
VT1.3.12	18900875	Large platform multi-specimen test tube adapter, 44 holes × Ø5 mm + 55 holes × Ø6.6 mm + 30 holes × Ø9.8 mm (1.5/2.0/0.5/0.2 mL)
PS1.1	18900067	Universal top plate, used with tube adapters
PS1.2	18204340	Single well plate tray kit: work plate (suitable for fully-skirted PCR plates, cell culture plates, enzyme immunoassay plates, and deep-well plates; use with a well plate adapter for half-skirted or non-skirted PCR plates)
PS1.3	18204341	Double microplate clamps

Scope of delivery

- **Standard configuration:** one MX-M main unit.
- **Additional accessories:** specify separately in the quotation. The accessory table describes compatible configurations, not the standard packing list.

SECTION IV

Applications

For microplate and tube mixing in life sciences including microbiology, cell and molecular biology, immunology and biotechnology. Select the holder for the vessel: the PS1.3 double microplate clamps or the PS1.2 single well plate tray kit for plates; the PS1.1 universal top plate, used with tube adapters, and the VT1.3.1–VT1.3.5, VT1.3.8 and VT1.3.10–VT1.3.12 tube adapters for test tubes; the VT1.3.9 PCR tube adapter for PCR tubes in strips of 8; or the VT1.3.6 platform pad for multiple small tubes and vessels.

Product value: single or double microplates at 0–1500 rpm (double microplate: 0–1000 rpm), a 4.5 mm orbital diameter, electronic speed control, and a maintenance-free brushless DC motor in a 260 × 150 × 80 mm, 3 kg instrument. Confirm the accessories and vessel types against your application requirements before ordering.

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