

# Smart Vortenizer™

## Precision Mixing Meets Powerful Homogenization

The Smart Vortenizer is a versatile and high-performance mixer designed to streamline sample preparation. From gentle mixing to high-speed homogenization, it delivers consistent results with ease. Its LED progress bar allows users to monitor mixing status at a glance, while two operational modes—continuous for extended tasks and sensor-activated for quick bursts—offer flexibility and eliminate wrist strain. Durable and intuitive, the Smart Vortenizer is the ultimate tool for efficient and ergonomic workflows.



Cat. No.  
118100500

### Key Features



Capable of mixing 19 x 2 mL tubes at maximum speed without bench creep.



Available adapters for all common tube sizes.



In Sensor Mode, a motion sensor offers classic “pulse” operation or touchless mixing that prevents wrist fatigue.

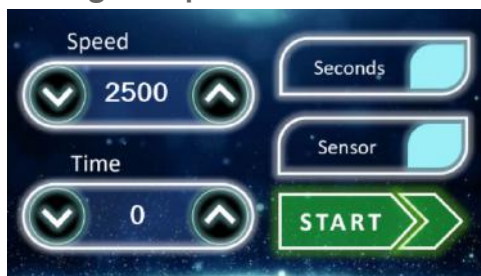


In Continuous Mode, set speed and time settings for extended mixing, and view task status from across a room with the bright LED progress bar.



A user-friendly 4.3-inch touch-screen offers simplicity and fine control.

#### Program Speed and Duration



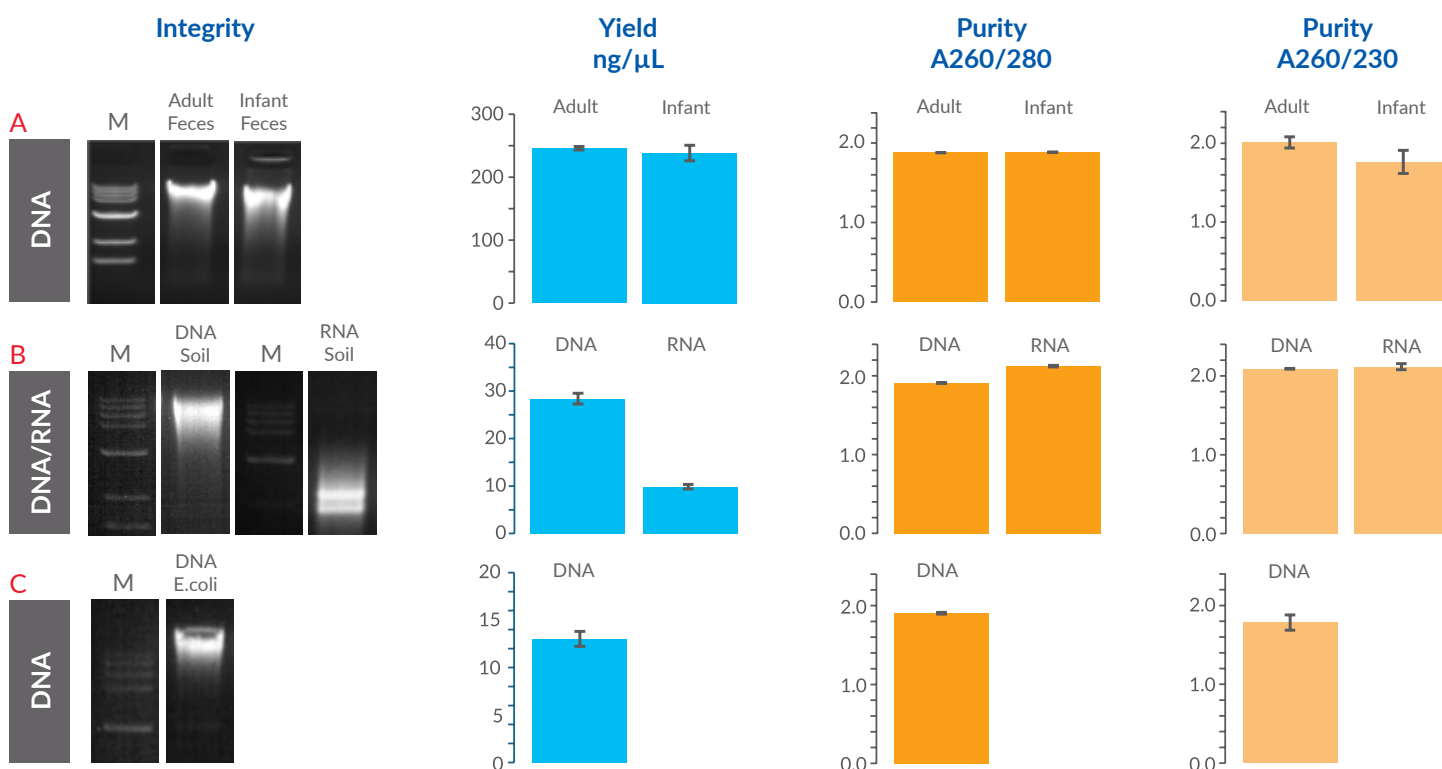
#### LED Progress Bar



#### Motion Sensor



## PERFORMANCE DATA - HOMOGENIZATION



**Figure 1.** The Smart Vortimizer functions as a homogenizer. **A)** 100 mg of adult or infant feces was homogenized for 20 min at 2500 RPM and purified with the SPINeasy DNA Kit for Feces (Cat. No. 116547050). **B)** 0.2 g soil was homogenized for 20 min at 2500 RPM and purified using the SPINeasy DNA/RNA Kit for Soil (Cat. No. 116554050). **C)** 1.7 mL cultured *E. coli* was homogenized for 10 min at 2500 RPM and purified using the SPINeasy Kit for Microbiome (Cat. No. 116553050). Nucleic acid was analyzed by 1% agarose gel for integrity and spectrophotometry for yield and purity. Error bars represent standard errors from 3 replicates. Lane M shows a size marker.

Specifications	
Capacity	Up to 19 x 2 mL tubes
Speed Range	200 - 3000 rpm
Timer	1 - 60 min/ 1- 999 secs
Activation	Touch-free sensor or continuous
Base	Suction base for stability
Real-time LED Progress Bar	Real-time colored progress bar
Applications	Mixing or homogenization of soft samples
Dimensions (W x L x H) & Weight	10.6 x 6.4 x 5.2 in; 11 lb (27 x 16.3 x 13.2 cm; 5 kg)
Orbit Diameter	4 mm
Load Capacity	1.1 lb (0.5 kg) at 2000 rpm
User Interface	4.3 in (10.9 cm) color touch screen
Adapters	19 x 2 mL (Cat No. 118100600)
	9 x 15 mL (Cat No. 118100605)
	4 x 50 mL (Cat. No. 118100610)



MP BIOMEDICALS

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