

**OXFORD**  
**LAB PRODUCTS**

# Original BenchMate® Manual Pipette



Providing Reliable Results for Over 20 Years

Oxford Lab Products  
**Original BenchMate® Manual Pipette**  
Features and Benefits

**Time-Tested Durability**

The original BenchMate® pipette was first introduced in 1995 and continues to be popular in labs today

**Autoclavable and UV Resistant**

Fully autoclavable and UV resistant, making it great for clean rooms, aseptic, and sterile applications

**Enhanced Accuracy and Precision**

Hyper blowout system improves dispensing accuracy with a longer second-push stroke on single channel models

**Locking Mechanism**

Prevents accidental volume changes while aspirating and dispensing liquids

**Four Digit Micrometer**

Delivers more precise and accurate volume settings compared to a three digit micrometer

**Lifetime Warranty\***

Durable equipment built to last



\*Lifetime warranty only available in the Continental USA

Oxford Lab Products  
**Original BenchMate® Manual Pipette**  
Product Overview



Large plunger for comfortable aspirating and dispensing

Locking mechanism to prevent "pipette drift"

Glass counter window for easy cleaning and chemical resistance

Body material has a high tolerance to solvents and to drop impact

Rotating 360° handle for convenient pipetting position

Ceramic plungers are used for pipettes larger than 200µL for increased chemical resistance

PTFE (Fluorine resin) is used in the airtight chamber to enhance accuracy and reproducibility

Tip cones designed for easy tip mounting and ejection

Hyper Blowout System in single channel pipettes to improve precision and accuracy

Oxford Lab Products  
**Original BenchMate® Manual Pipette**  
 Ordering Information Specifications

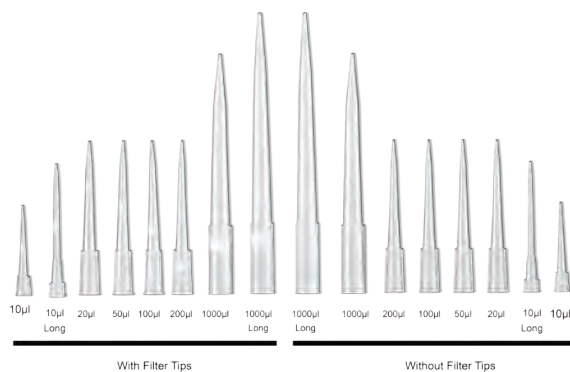
**Single Channel BenchMate® Pipettes**

Single Channel Catalog No.	Volume Range (µL)	Increments (µL)	Volume (µL)	Accuracy (systematic error) AC (%)	Precision (random error) CV (%)
OB-2	0.1 to 102	0.01	0.2	±12.0	≤6.0
			1	±5.0	≤2.5
			2	±3.0	≤1.0
OB-10	0.5 to 10	0.1	1	±4.0	≤3.0
			5	±1.0	≤1.0
			10	±1.0	≤0.5
OB-20	2 to 20	0.2	2	±5.0	≤3.0
			10	±1.0	≤1.0
			20	±1.0	≤0.4
OB-100	10 to 100	0.1	10	±2.0	≤1.0
			50	±1.0	≤0.3
			100	±0.8	≤0.3
OB-200	20 to 200	0.2	20	±1.0	≤0.5
			100	±0.8	≤0.3

**Multichannel BenchMate® Pipettes**

8-Channel Catalog No.	12-Channel Catalog No.	Volume Range (µL)	Increments (µL)	Volume (µL)	Accuracy (systematic error) AC (%)	Precision (random error) CV (%)
OB8-10	OB12-10	0.5 to 10	0.01	1	±8.0	≤5.0
				5	±4.0	≤2.0
				10	±2.0	≤1.0
OB8-100	OB12-100	5 to 100	0.1	10	±3.0	≤2.0
				50	±1.0	≤0.8
				100	±0.8	≤0.3
OB8-200	OB12-200	20 to 200	0.2	20	±3.0	≤0.6
				100	±1.0	≤0.4
				200	±9.0	≤0.3
OB8-300	OB12-300	30 to 300	1	30	±3.0	≤1.0
				150	±1.0	≤0.5
				300	±0.6	≤0.3

**BenchMate® Pipette Tips**



**OXFORD**  
**LAB PRODUCTS**

**BenchMate® L**  
Advanced Manual Pipette



Oxford Lab Products

# BenchMate® L Advanced Manual Pipette

## Features and Benefits

### Fully Autoclavable and UV Resistant

Ideal for use in sterile applications and cell culture

### Durable

The sealing ring is tested to dispense and aspirate 600,000 times; equivalent to 6,250 96-well plates

### Solvent Resistant

The pipette body and ceramic plunger have a high tolerance to solvents to prevent corrosion

### 50/50 Balanced

Composed of lightweight plastic and components in an ergonomic design with a large finger hook and plunger

### Enhanced Accuracy and Precision

Hyper blowout system improves dispensing accuracy with a longer second-push stroke

### Four Digit Micrometer

Delivers more precise and accurate volume settings compared to a three digit micrometer

### Lifetime Warranty\*

Durable equipment built to last



\*Lifetime warranty only available in the Continental USA

Oxford Lab Products

# BenchMate® L Advanced Manual Pipette

## Product Overview



### Light Plunger Force

70% Less force required to pipette when compared to the original BenchMate® pipette

### Locking Mechanism

Minimizes pipette drifting

### Glass Counter Window

Solvent tolerant and easy to clean window displays large volume digits

### Ceramic Plunger

Increased corrosion resistance when compared to stainless steel plungers

### Hyper Blower System

Improves precision and accuracy of small volumes

Oxford Lab Products

# BenchMate® L Advanced Manual Pipette

Ordering Information Specifications

Single Channel Catalog No.	Volume Range (µL)	Increments (µL)	Volume (µL)	Accuracy (systematic error) AC (%)	Precision (random error) CV (%)
OBL-2	0.1 to 2	0.002	0.2 1 2	±12.0 ±5.0 ±3.0	≤6.0 ≤2.5 ≤1.0
OBL-10	1.5 to 10	0.001	1 5 10	±4.0 ±1.0 ±1.0	≤3.0 ≤1.0 ≤0.5
OBL-20	2 to 20	0.02	2 10 20	±5.0 ±1.0 ±1.0	≤3.0 ≤1.0 ≤0.4
OBL-100	10 to 100	0.1	10 50 100	±2.0 ±1.0 ±0.8	≤1.0 ≤0.3 ≤0.3
OBL-200	20 to 200	0.2	20 100 200	±1.0 ±0.8 ±0.8	≤0.5 ≤0.3 ≤0.2
OBL-1000	100 to 1000	1	100 500 1000	±1.0 ±0.8 ±0.7	≤0.5 ≤0.3 ≤0.2

## Complementary Oxford LP Products



BenchMate® E  
Electronic Pipettes



Digital Vortex Mixer  
(VM-D)



Microcentrifuge  
(C8)



Digital Plate Shaker  
(S4P-D)



High Speed Microcentrifuge  
(C12V)



**OXFORD**  
LAB PRODUCTS

# BenchMate® E

## Electronic Pipette



Transformative Pipetting

**OXFORD**  
BenchMate E

Oxford Lab Products

# BenchMate® E Electronic Pipette

Features and Benefits

## Easy to Use

Simple, color interface to quickly choose pipetting mode

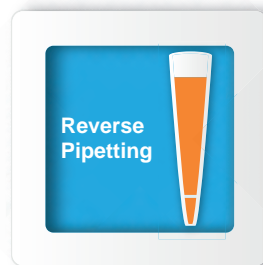
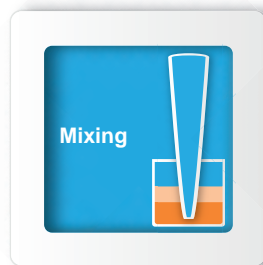
## Ergonomic Design

Ultra lightweight, balanced to reduce RSI

## One Click Favorites

Store and recall up to 3 frequently used programs

## Popular Pipetting Modes



## Smart Charging

Pipette can be used while plugged in. Battery charges in 2 hours when pipette is not in use.

## Password Protected

Secures calibration due date

## Robust

Stepper motor for accurate, precise, and reliable pipetting

## Lifetime Warranty\*

Durable equipment built to last

\*Lifetime warranty only available in the Continental USA



Oxford Lab Products

# BenchMate® E Electronic Pipette

Product Overview



Intuitive Display

Easy-to-Use Buttons

Ergonomically Balanced  
Finger Hook






Lower Assembly is  
Autoclavable

Computer Controlled  
Aspirating and Dispensing






Universal Tip Cones

Specially Designed Tip Cones with  
O-rings for Leak-free Pipetting

## Single Channel BenchMate® E Electronic Pipettes

Single Channel Catalog No.	Volume Range (µL)	Increments (µL)	Volume (µL)	Accuracy (systematic error) AC (%)	Precision (random error) CV (%)
OBE-10	0.5 to 10 	0.01	1 5 10	±2.5 ±2 ±1	≤1.8 ≤1 ≤0.6
OBE-100	5 to 100 	0.1	10 50 100	±3 ±1 ±0.8	≤1 ≤0.5 ≤0.2
OBE-200	10 to 200 	0.1	20 100 200	±2.5 ±0.7 ±0.6	≤0.7 ≤0.3 ≤0.2
OBE-1000	50 to 1000 	1	100 500 1000	±3 ±1 ±0.6	≤0.6 ≤0.4 ≤0.2
OBE-5000	250 to 5000 	5	500 2500 5000	±2.4 ±1.2 ±0.6	≤0.6 ≤0.25 ≤0.15

## Multichannel BenchMate® E Electronic Pipettes

8-Channel Catalog No.	12-Channel Catalog No.	Volume Range (µL)	Increments (µL)	Volume (µL)	Accuracy (systematic error) AC (%)	Precision (random error) CV (%)
OBE8-10	OBE12-10	0.5 to 10 	0.01	1 5 10	±8 ±4 ±2	≤5 ≤2 ≤1
OBE8-20	OBE12-20	2 to 20 	0.01	2 10 20	±7 ±3 ±2	≤3 ≤2 ≤1.6
OBE8-100	OBE12-100	5 to 200 	0.1	10 50 100	±3 ±1 ±0.8	≤2 ≤0.8 ≤0.3
OBE8-200	OBE12-200	10 to 200 	0.1	20 100 200	±5 ±1 ±0.7	≤1.4 ≤0.4 ≤0.25
OBE8-300	OBE12-300	15 to 300 	0.1	30 150 300	±3 ±1 ±0.6	≤1 ≤0.5 ≤0.3



### Pipette Stands for BenchMate® E Electronic Pipette

Catalog No.	Description
OBE-S	Acrylic Pipette Stand, for One Pipette
OBE-CS	Charging Pipette Stand, for One Pipette



# OXFORD LAB PRODUCTS

## BenchMate® Centrifuges



Oxford Lab Products  
**C8 Microcentrifuge**  
 Features and Benefits

**Designed for Quick Spin Applications**

Versatility, simplicity, and safety in a single unit

**Simple Cleaning**

Easy-to-clean drain in case of sample spillage

**Compact Footprint**

To save you valuable bench space

**Rotor and Tube Versatility**

8-place 1.5 mL/2.0 mL microcentrifuge tube rotor and  
 16-place PCR tube rotor included

**Simple Operation and Fixed Speed**

Digital display with 6,000 rpm (2,000 x g) fixed speed

**Quiet Operation**

Unique closed rotor design

**Lifetime Warranty\***

Durable equipment built to last



**Product Specifications for Oxford Lab Products C8 Microcentrifuge**

Catalog Number	C8
Speed rpm/RCF	6,000 rpm/2,000 x g
Capacity	8 Place Closed Rotor for 1.5 mL/2.0 mL Microcentrifuge Tubes
Tube Adapters	Reduction Adaptors for 0.2 mL/0.5 mL Microtubes
Imbalance Detection	Yes
Digital Display	Yes
Electronic Safety Brake	Yes
Noise Level	<55 dB
Dimensions (W x D x H)	162 x 157 x 115 mm (6.4 x 6.2 x 4.5 in.)

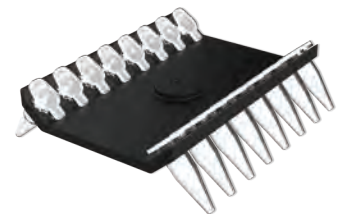
\*Lifetime warranty only available in the Continental USA



1.5 mL/2.0 mL  
 Microcentrifuge Tube Rotor



0.5 mL Microcentrifuge  
 Tube Adapters



PCR Tube Rotor

# Oxford Lab Products

## C12V High-Speed Microcentrifuge

### Features and Benefits

#### High Speed

15,000 rpm (15,596 x g) maximum speed

#### Saves Benchtop Space

Small footprint

#### Perfect for Standard Microcentrifuge Tubes

12-place 1.5 mL/2.0 mL microcentrifuge tube rotator included

#### Easy to Set and View Programs

Large digital display

#### Programmable

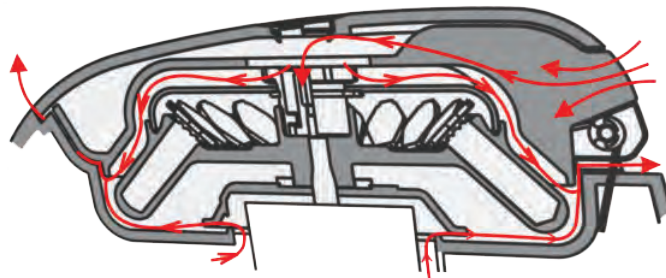
99 programs with 4 lines each

#### Durable Motor

BLDC motor is maintenance free and produces less heat than traditional motors

#### Lifetime Warranty\*

Durable equipment built to last



Airflow Design Minimizes Heat Generation



16-Place PCR Tube Rotor (C12V-PCR-Rotor)



12-Place Microcentrifuge Tube Rotor and Adapters (Included)



Durable Metal Shell and Rotor Construction for Increased Safety

### Product Specifications for Oxford Lab Products C12V Microcentrifuge

Catalog Number	C12V
Maximum rpm/RCF	15,000 rpm/15,596 x g
Speed Setting	Variable, 500 rpm to 15,000 rpm
Included Rotor	12 Place 1.5 mL/2.0 mL Microcentrifuge Tubes
Optional PCR Tube Rotor	PCR Strip Rotor (2 x 8 x 0.2 mL)
Tube Adapters	Reduction Adaptors for 0.4 mL/0.5 mL Tubes
Programmable	Yes; USB Connectivity for Data Log and Remote Operation Programming
Timer Setting	Countdown Timer from 1 Minute to 999 Minutes
Motor Type	Brushless DC (BLDC) Motor
Display	Large Back-lit LCD Display
Imbalance Detection	Yes
Noise Level	< 60 dB

\*Lifetime warranty only available in the Continental USA

Oxford Lab Products  
**C6V Clinical Centrifuge**  
 Features and Benefits

**Maintain Sterility**

Fully autoclavable rotor

**Simple Cleaning**

Easy-to-clean drain in case of sample spillage

**High Capacity and Versatility**

6-place rotor for 1.5 mL, 5 mL, 7 mL, 9 mL, 10 mL, and 15 mL tubes with included adapters

**High Speed/Application Range**

Maximum speed of 6,500 rpm (3,684 x g) controlled digitally

**No Sample Heating**

Low heat generation due to BLDC motor

**Lifetime Warranty\***

Durable equipment built to last



Reduction Adaptors



Rotor

Product Specifications for Oxford Lab Products C6V Clinical Centrifuge	
Catalog Number	C6V
Maximum rpm/RCF	6,500 rpm (RCF: 3,684 x g)
Maximum Capacity	6 x 15 mL Tubes
Included Tube Adapters	Reduction Adaptors for 5 mL, 7 mL, and 1.5/2 mL Tubes
Speed Setting	Variable; 500 rpm to 6,500 rpm, in 100 rpm Increments
Run Time	1 to 30 Minutes and Infinite Mode
Motor Type	Brushless DC (BLDC) Motor
Imbalance Detection	Yes
Lid Safety Lock	Yes; Lid Release Opens Automatically
Fixed Angle Rotor	25 °C
Acceleration Time	25 Seconds
Deceleration Time	39 Seconds
Size (L x B x W)	260 x 244 x 203 mm

\*Lifetime warranty only available in the Continental USA



Oxford Lab Products  
**CH24V Hematocrit Centrifuge**  
Features and Benefits

**Maintain Sterility**

Centrifuge up to 24 capillary tubes

**Variable Speed for a Wide Application Range**

Maximum speed of 12,000 rpm (14,119 x g) controlled digitally

**Favorite Mode**

Save a preset speed and time

**User Safety is a Priority**

Auto imbalance detection and lid lock is standard on each unit

**No Sample Heating**

Low noise and heat production

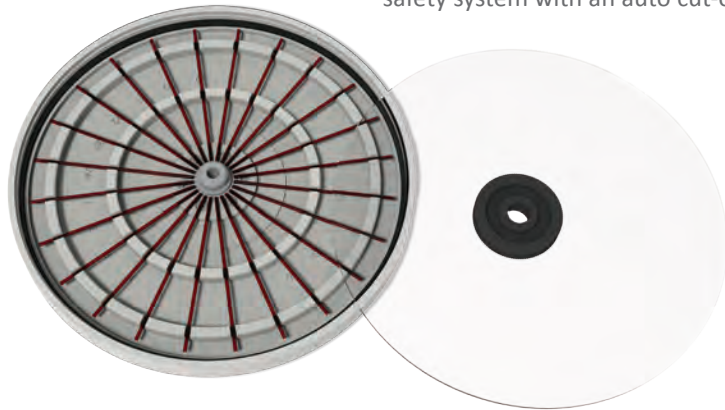
**Lifetime Warranty\***

Durable equipment built to last



This affordable, compact centrifuge is ideal for any laboratory determining erythrocyte fractions in blood and separating micro solutions.

Safety is emphasized by the Oxford microhematocrit with an imbalance detection safety system with an auto cut-off feature.



Product Specifications for Oxford Lab Products Hematocrit Centrifuge	
Catalog Number	CH24V
Maximum Capacity	24 x 45 mm/75 mm Length Capillary Tubes
Maximum Speed	12,000 rpm (RCF: 14,119 x g)
Speed Setting	Variable; 500 rpm to 12,000 rpm, in 100 rpm Increments
Run Time	Up to 12 Minutes
Rotor	HCT Rotor with Screw on Lid
Motor Type	Brushless DC (BLDC) Motor
Imbalance Detection	Yes
Lid Safety Lock	Yes; Lid Release Opens Automatically
Size (L x B x W)	363 x 301 x 105 mm

\*Lifetime warranty only available in the Continental USA

Oxford Lab Products  
**BenchMate® Pipettes**  
 Additional Products

Original BenchMate®  
 Pipette



BenchMate® L Single  
 Channel Pipette



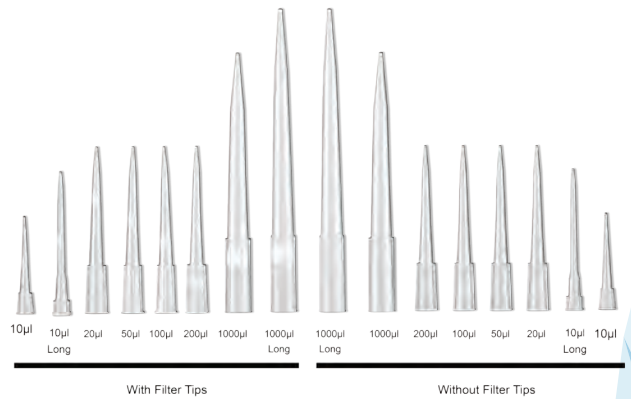
BenchMate® E  
 Single and Multi Channel Electronic Pipettes



Digital Magnetic Stirrer



BenchMate® Centrifuge Tubes



BenchMate® Pipette Tips

**OXFORD**  
LAB PRODUCTS

**BenchMate<sup>®</sup>**  
Vortex Mixers



Oxford Lab Products  
**BenchMate® Digital Vortex Mixer**  
 Features and Benefits

**Powerful and Broad Speed Range**

Adjustable speed range from 300 rpm to 4200 rpm

**Easy and Accurate Setting Adjustment**

Digital display ideal for protocol documentation

**Hands-free Usability**

Touch activation and continuous modes for easy mixing

**No “Walking”**

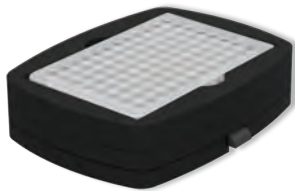
Built-in counterbalance

**Pulse Function**

Alternates 5 seconds of mixing with 5 motion-free seconds

**Lifetime Warranty\***

Durable equipment built to last



Microplate Attachment  
(VM-D-PLATE)



24 x 1.5 mL Microtube  
Attachment  
(VM-D-TUBE)



Round Disk Attachment  
(VM-D-ROUND)



Erlenmeyer Flask  
Attachment  
(VM-D-FLtASK)

Product Specifications for BenchMate® Digital Vortex Mixer	
Catalog Number	VM-D
Speed Range	300 rpm to 4200 rpm
Modes	Touch, Continuous, and Pulse Mode
Timer Function	1 Minute to 999 Minutes and Infinite Mode
Digital Display	Yes
Motor Type	Brushless DC (BLDC) Motor
Orbital Diameter	4 mm
Max. Load Capacity	500 g

\*Lifetime warranty only available in the Continental USA

Oxford Lab Products  
**BenchMate® Multi Tube Vortex Mixer**  
 Features and Benefits

**High Throughput**

Simultaneously vortex up to 60 tubes

**Wide Speed Range**

The 300 rpm to 2500 rpm variable speed meets most application needs

**Easy and Accurate**

Digital display and microprocessor are accurate to within 5 rpm of set speed

**Ideal for Difficult-to-Mix Solutions**

Programmable pulse function with pulse function alternating between clockwise and counterclockwise motion

**Quiet Operation**

Brushless DC motor

**Versatile**

Optional attachments for multiple tube sizes and flasks

**Lifetime Warranty\***

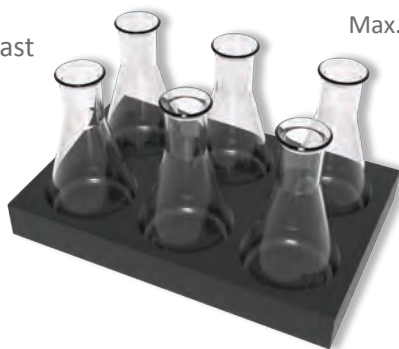
Durable equipment built to last



50 mL Tube Attachment  
 Max. Capacity: 18 Tubes  
 (VM-MT-50)



15 mL Tube Attachment  
 Max. Capacity: 45 Tubes  
 (VM-MT-15)



250 mL Flask Attachment  
 Max. Capacity: 6 Flasks  
 (VM-MT-FLASK)



1.5/5/7 mL Tube Attachment  
 Max. Capacity: 60 Tubes  
 (VM-MT-7)

**Product Specifications for BenchMate® Multi Tube Vortex Mixer**

Catalog Number	VM-MT
Speed Range	300 rpm to 2500 rpm
Speed Accuracy	±5 rpm
Timer Function	1 Minute to 999 Minutes and Infinite Mode
Motion Type	Clockwise (CW) and Counterclockwise (CCW) Motion
Pulse Mode	Programmable Pulse with Selection of Variable Time Between 30-99 Seconds
Digital Display	Yes
Motor Type	Brushless DC (BLDC) Motor
Orbital Diameter	4 mm
Protection Class	IP 21

\*Lifetime warranty only available in the Continental USA

Oxford Lab Products  
**BenchMate® Mini Vortex Mixer**  
Features and Benefits

**Powerful Vortex Mixing**

2500 rpm to 4500 rpm adjustable speed

**Small Footprint**

Only 100 mm diameter

**Stable with No “Walking” Issues**

Built-in counterbalance and suction cup feet

**Easy to Clean**

Silicone cup

**Robust Design**

Constructed with a die-cast aluminum base ensuring a long-life

**Lifetime Warranty\***

Durable equipment built to last



Product Specifications for BenchMate® Mini Vortex Mixer	
Catalog Number	VM-M
Speed Range	2500 rpm to 4500 rpm
Modes	Touch Activation
Maximum Tube Diameter	Up to 30 mm
Motor Type	Brushless DC (BLDC) Motor
Orbital Diameter	4.5 mm
Maximum Load Capacity	500 g

\*Lifetime warranty only available in the Continental USA

**Complementary Oxford LP Products**



BenchMate® Centrifuge Tubes



BenchMate® Microcentrifuge (C8)



Digital Magnetic Stirrer (MS1)

# OXFORD LAB PRODUCTS

## BenchMate® Laboratory Shakers



Oxford Lab Products  
**BenchMate® Digital Orbital Shaker**  
 Features and Benefits

**Program the Shaker for Quicker Use**

You can pre-program:

- Motion direction (clockwise or counterclockwise)
- Speed
- Run time from 1 minute to 99.59 hours
- Dwell time and sequence

**Pulse Function for Vigorous Mixing**

Set the orbital shaker to alternate between a clockwise and counterclockwise motion

**Designed with Documentation in Mind**

Large LED display simultaneously shows speed, time, and program



**Utilize Almost All Vessel Shapes and Sizes**

Multiple attachments and platforms are available to fit your applications

**Lifetime Warranty\***

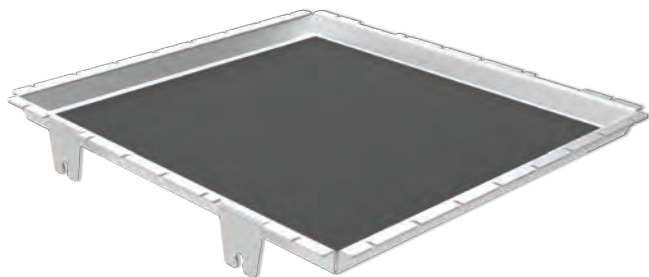
Durable equipment built to last

Product Specifications		
Catalog Number	OS-10+	OS-20+
Description	BenchMate® 10 mm Orbital Shaker with Stainless Steel Slip Resistant Tray	BenchMate® 20 mm Orbital Shaker with Stainless Steel Slip Resistant Tray
Orbital/Linear Motion	10 mm Diameter	20 mm Diameter
Variable Speed	50 rpm to 500 rpm	50 rpm to 300 rpm
Motor Type	Brushless DC (BLDC) Motor	Brushless DC (BLDC) Motor
Run Time	1 Minute to 99.59 Hours	1 Minute to 99.59 Hours
Programmable	Yes; Save up to 6 Programs with 9 Sub-programs	Yes; Save up to 6 Programs with 9 Sub-programs
Max. Allowable Weight	7.5 kg/16.5 lbs (Including Attachment)	7.5 kg/16.5 lbs (Including Attachment)
Platform Size (L x W)	330 mm x 330 mm	330 mm x 330 mm
Dimensions (L x W x H)	350 mm x 408 mm x 105 mm	350 mm x 408 mm x 105 mm
RS-232 Interface	Optional	Optional

\*Lifetime warranty only available in the Continental USA



Oxford Lab Products  
**BenchMate® Orbital Shaker Attachments**  
 Attachment Overview



**Stainless Steel Base Plate**  
 with Slip Resistant Tray  
 (Cat. No. OS-SBP; Included)



**Universal Platform with Adjustable Bars**  
 Flask Capacity of 13 x 100 mL, 13 x 150 mL,  
 9 x 250 mL, 6 x 500 mL, or 5 x 1000 mL  
 (Cat. No. OS-UA)



**Funnel Attachment Platform**  
 (Cat. No. OS-FA)



**Stainless Steel Platform for Stainless Steel Clamps**  
 OS-SBP250: Flask Capacity of 9 x 100 mL, 150 mL, or 250 mL Flasks  
 OS-SBP1000: Flask Capacity of 9 x 500 mL or 5 x 1000 mL Flasks  
 Clamps Sold Separately



**Plastic Flask Clamps**  
 250 mL Flask Clamp: OS-PC250  
 500 mL Flask Clamp: OS-PC500



**Stainless Steel Flask Clamps**  
 100 mL Flask Clamp: OS-SC100  
 250 mL Flask Clamp: OS-SC250  
 500 mL Flask Clamp: OS-SC500  
 1000 mL Flask Clamp: OS-SC1000



**Plastic Platform for Plastic Clamps**  
 Flask Capacity of 9 x 250 mL or 9 x 500 mL,  
 Clamps Sold Separately  
 (Cat. No. OS-PBP)

# Oxford Lab Products

## BenchMate® Digital Plate Shaker

### Features and Benefits

#### Consistent Temperature

No temperature “hotspots” with compartmentalized brushless DC motor

#### Designed for Documentation

Digitally adjust speed from 200 rpm to 1200 rpm

#### Robust Mixing Option

Continuous and pulse functions for vigorous mixing

#### Supported Base

Ensures constant speed across the entire shaking platform

#### Programmable

Program speed, run time, and pulse mode

#### Lifetime Warranty\*

Durable equipment built to last



#### Product Specifications

Catalog Number	S4P-D
Description	BenchMate® Digital Four Plate Shaker with 3 mm Orbital Motion, 200 to 1200 rpm Speed Range
Orbital Diameter	3 mm
Variable Speed	200 rpm to 1200 rpm, in 10 rpm Increments
Plate Capacity	4 Standard SBS Footprint Microtiter Plates
Pulse Mode	Yes (Clockwise and Counterclockwise Motions)
Timer	1 Minute to 999 Minutes and Infinite Mode
Motor Type	Brushless DC (BLDC) Motor
Programmable	Yes
Max. Weight Capacity	2 Kg/4.4 lbs
Dimensions (L x W x H)	343 x 195 x 88 mm
Protection Class	IP 20

\*Lifetime warranty only available in the Continental USA

**OXFORD**  
LAB PRODUCTS

# BenchMate®

## Tube Rollers and Rotators



Oxford Lab Products

# BenchMate® Digital & Analog Tube Rollers

## Features and Benefits

### High Capacity

Mix up to twenty-seven 7 mL tubes with the 10 Roller model (TR10)

### Quick and Easy to Clean

Removable rollers for effortless cleaning

### Versatile

Adjustable roller spacing to hold different diameter tubes

### Programmable

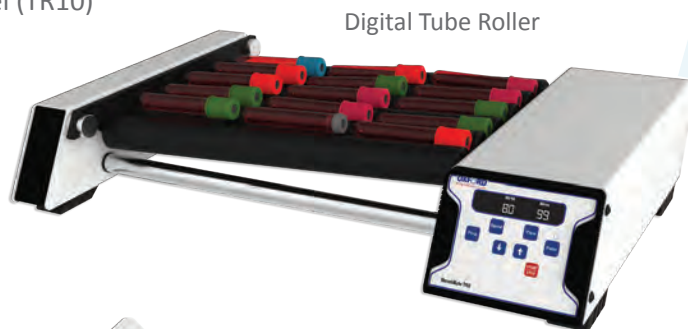
Save programs easily with the digital models

### Adjusts to Varying Weight of Samples

Microprocessor controlled variable speed incorporated into every digital model

### Lifetime Warranty\*

Durable equipment built to last



Detachable Rollers for Easy Disinfection

Specification	Digital Tube Rollers		Analog Tube Roller
Catalog Number	TR6	TR10	TR4
Number of Tube Rollers	6 Rollers	10 Rollers	4 Rollers
Maximum Capacity	15 x 7 mL Tubes	27 x 7 mL Tubes	9 x 5 mL Tubes
Removable Rollers	Yes; Tool Free Removal	Yes; Tool Free Removal	Yes; Tool Free Removal
Speed	Variable, 10 to 80 rpm	Variable, 10 to 80 rpm	Fixed, 30 rpm
Programmable	Yes	Yes	No
Speed Accuracy	±5 rpm	±5 rpm	±2 rpm
Speed Steps	1 rpm	1 rpm	—
Motor Type	Brushless DC Motor	Brushless DC Motor	AC Synchronous
Tilt Angle	±3°	±3°	±3°
Operation Type	Continuous & Timed Modes	Continuous & Timed Modes	Continuous Mode
Timer Range	0 to 99 Minutes & Infinite Mode	0 to 99 Minutes & Infinite Mode	Infinite Mode
Dimensions	496 x 107 x 292 mm	496 x 107 x 292 mm	475 x 210 x 80 mm
Protection Class	IP 21	IP 21	IP 21

\*Lifetime warranty only available in the Continental USA

Oxford Lab Products  
**BenchMate® Digital Tube Rotator**  
 Features and Benefits

**Versatile**

Adjustable speed, time and tilt angle, and 3 different disc plate options

**High Capacity**

Accommodates up to 22 blood collection tubes, ESR, or vacuum tubes

**Removable Discs**

Easy-to-remove discs for effortless cleaning

**Pulse Mode Option**

Pulse mode available for vigorous rotating requirements

**Programmable**

Save up to 9 different protocols using the digital display

**Lifetime Warranty\***

Durable equipment built to last



Rotator Disk for 50 mL Tubes  
 Max. Capacity: 12 Tubes  
 (OTR-24D-50T; Included)



Rotator Disk for 2 mL Tubes  
 Max. Capacity: 44 Tubes  
 (OTR-24D-2T; Optional)



Rotator Disk for 15 mL Tubes  
 Max. Capacity: 24 Tubes  
 (OTR-24D-15T; Optional)



Variable Angle

Specification	Oxford Lab Products Digital Tube Rotator
Catalog Number	OTR-24D
Speed Range	10 rpm to 80 rpm
Variable Disc Angle	0° to 90°
Removable Disc Plates	Yes; 3 Options Available
Motor Type	Brushless DC (BLDC) Motor
Speed Accuracy	±1 rpm
Speed Steps	1 rpm Increment
Time Range	1 Minute to 99 Minutes, or Continuous
Programmable	Yes
Maximum Loading Capacity	2 kg
Removable Disc Plates	Yes; 3 Options Available
Dimensions	382 x 330 x 320 mm

\*Lifetime warranty only available in the Continental USA

Oxford Lab Products

# BenchMate® Analog Tube Rotator

Ordering Information Specifications

## Saves Benchtop Space

Compact design accommodates up to 16 blood collection tubes, ESR, or vacuum tubes

## High Capacity

Fixed rotational speed of 30 rpm and fixed disc angle of 38°

## Simple to Clean

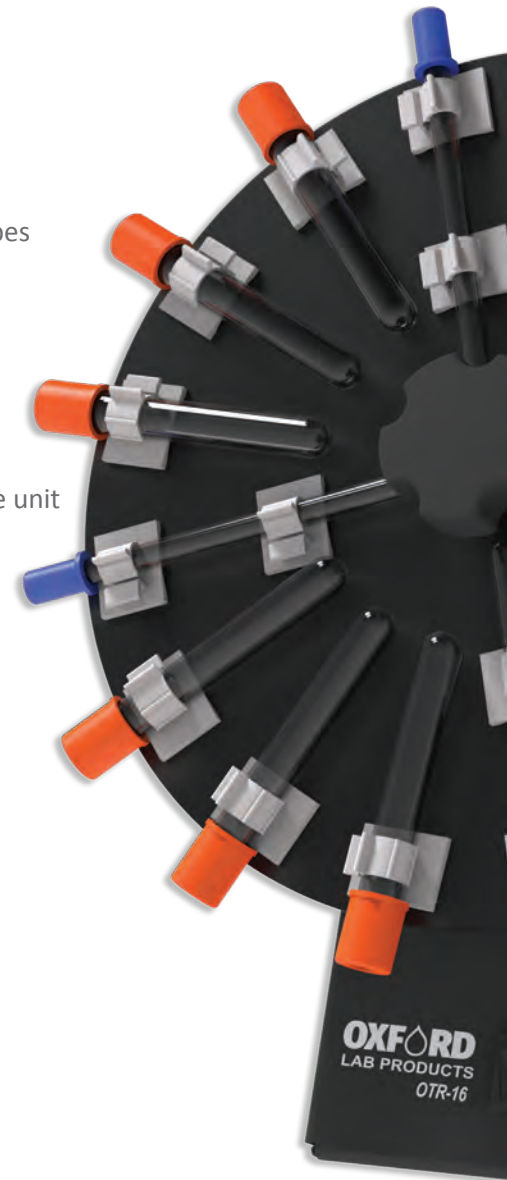
The disc plate can be easily removed and replaced for quick and easy cleaning of the unit

## Lifetime Warranty\*

Durable equipment built to last

Specification	Oxford Lab Products Digital Tube Rotator
Catalog Number	OTR-16
Fixed Speed	30 rpm
Fixed Disc Angle	38°
Maximum Capacity	12 Blood Collection Tubes and 4 ESR Tubes
Removable Disc Plates	Yes
Motor Type	AC Synchronous Motor
Speed Accuracy	±2 rpm
Operation Type	Continuous Operation
Protection Class	IP 21
Dimensions	278 x 183 x 252 mm

\*Lifetime warranty only available in the Continental USA



## Complementary Oxford LP Products



Clinical Centrifuge  
(C6V)



Microcentrifuge  
(C8)



BenchMate® L Pipettes



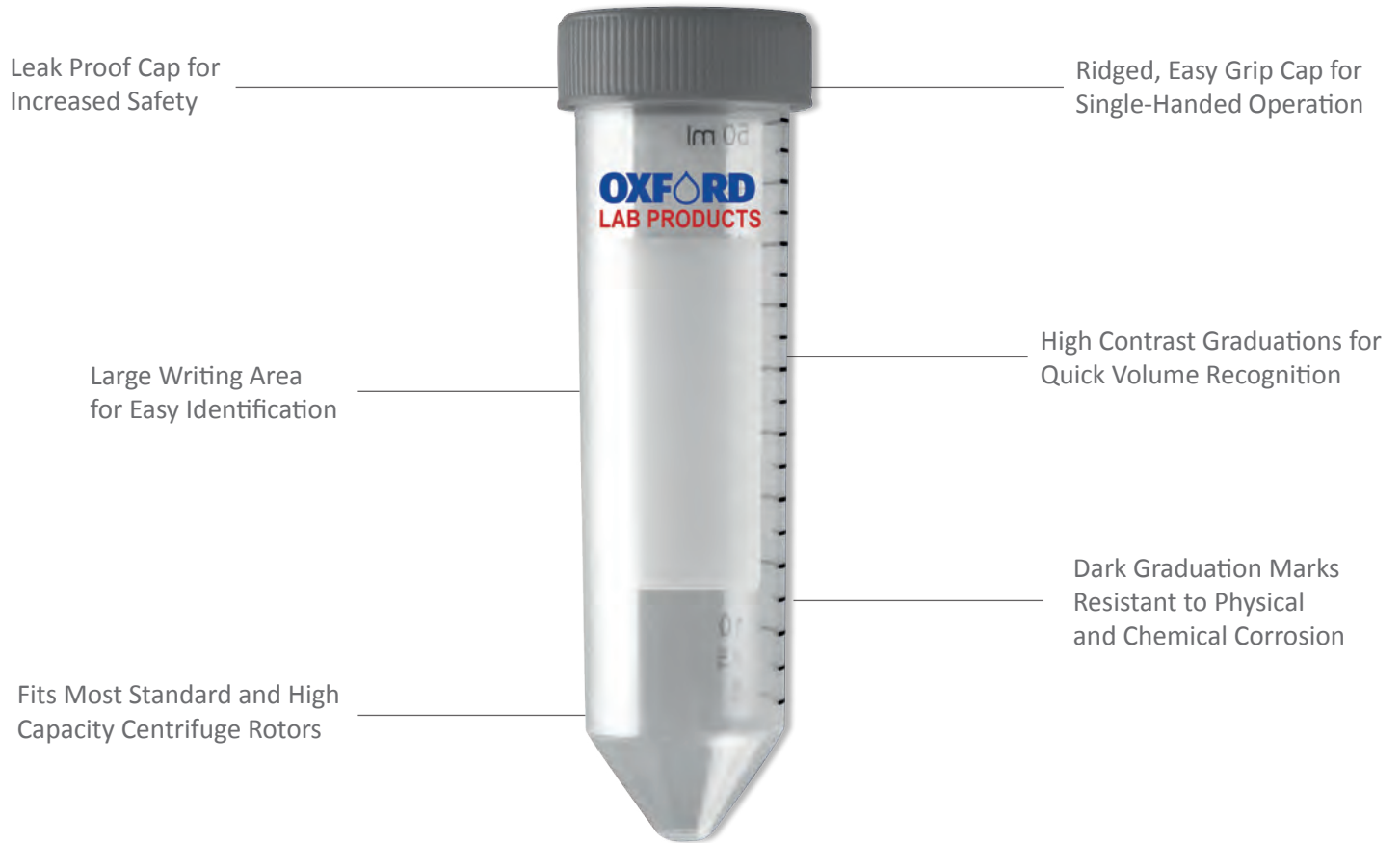
Digital Vortex Mixer  
(VM-D)

**OXFORD**  
**LAB PRODUCTS**

**BenchMate®**  
Centrifuge Tubes



Oxford Lab Products  
**BenchMate® Centrifuge Tubes**  
Product Overview



**Free of Contaminants**

Produced in a fully automatic, human touch-free clean room facility ensuring the tubes are free from DNase, RNase, human DNA, endotoxins, pyrogens, PCR inhibitors, lubricants, and heavy metals



Oxford Lab Products

## BenchMate® Centrifuge Tubes

Features and Benefits



### 50 mL Centrifuge Tubes BenchMate® Centrifuge Tubes

Maximum Speed: 17,000 x g  
Temperature Range - 80 °C to +121°C

Catalog No.	Description	Quantity
OCT-50B	BenchMate® 50 mL Sterile Centrifuge Tubes with Attached Flat Cap, Bulk Pack	25 Tubes/Resealable Pack, 20 Packs per Case
OCT-50R	BenchMate® 50 mL Sterile Centrifuge Tubes with Attached Flat Cap, Racked	25 Tubes/Rack, 20 Packs per Case



### 15 mL Centrifuge Tubes BenchMate® Centrifuge Tubes

Maximum Speed: 17,000 x g  
Temperature Range - 80 °C to +121°C

Catalog No.	Description	Quantity
OCT-15B	BenchMate® 15 mL Sterile Centrifuge Tubes with Attached Flat Cap, Bulk Pack	25 Tubes/Resealable Pack, 20 Packs per Case
OCT-15R	BenchMate® 15 mL Sterile Centrifuge Tubes with Attached Flat Cap, Racked	25 Tubes/Rack, 20 Packs per Case

Oxford Lab Products  
**BenchMate®**  
Additional Products

Original BenchMate®  
Pipette



BenchMate® L Single  
Channel Pipette



BenchMate® E  
Single and Multi Channel Electronic Pipettes



Digital Vortex Mixer  
(VM-D)



Microcentrifuge  
(C8)



Digital Plate Shaker  
(S4P-D)



High Speed Microcentrifuge  
(C12V)

**OXFORD**  
LAB PRODUCTS

# BenchMate®

## Magnetic & Hotplate Stirrers



Oxford Lab Products

# BenchMate® Digital Magnetic and Hotplate Stirrers

## Features and Benefits

### Space Saving Design

Maximize the use of precious bench-top space, the 10-place (MHS-10) unit is less than 8 inches wide

### Pulse Function for Vigorous Mixing

Alternates between clockwise and counterclockwise motion every 30 seconds

### Designed with Documentation in Mind

Digital display indicates speed and time

### Maintenance Free

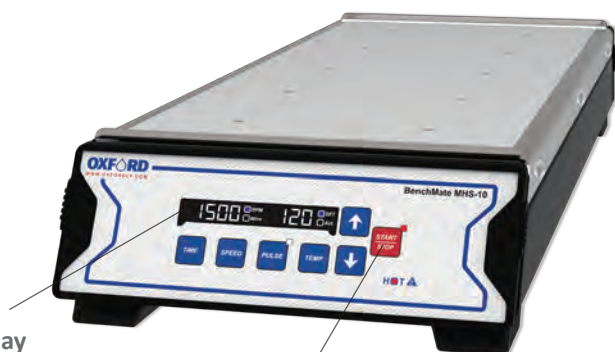
Motorless stirrers with no moveable parts

### Easy to Clean

Digital display without knobs

### Lifetime Warranty\*

Durable equipment built to last



**Easy-to-read LED Display**  
Digital display specifies speed, time, and temperature

**Designed for User Safety**  
Dedicated "HOT" LED indicator light and waterproof heater with built-in safety cutoff

Product Specifications	BenchMate® Magnetic Stirrers		BenchMate® Hotplate Stirrers	
Catalog Number	MS1	MS4	MHS-5	MHS-10
Number of Stirring	1	4	5	10
Max. Volume per Position	800 mL	400 mL	400 mL	400 mL
Total Max. Volume	800 mL	1600 mL	2000 mL	4000 mL
Variable Speed	15 to 1500 rpm, in 50 rpm Increments	15 to 1200 rpm, in 50 rpm Increments	300 to 1500 rpm, in 10 rpm Increments	300 to 1500 rpm, in 10 rpm Increments
Run Time	1 to 99 Minutes & Infinite Mode	1 to 99 Minutes & Infinite Mode	1 to 999 Minutes & Infinite Mode	1 to 999 Minutes & Infinite Mode
Digital Display	Yes	Yes	Yes	Yes
Pulse Mode	Yes	Yes	Yes	Yes
No. PTFE Coated Stir Bars Included (25 x 8 mm)	1	4	5	10
Motor Type	BLDC	BLDC	BLDC	BLDC
Plate Material	Corrosion Resistant Stainless Steel	Corrosion Resistant Stainless Steel	Corrosion Resistant Stainless Steel with Silicone Sheet	Corrosion Resistant Stainless Steel with Silicone Sheet
Dimensions (L x W x H)	156 x 110 x 13.2 mm	457 x 126 x 13.4 mm	562 x 136 x 75 mm	565 x 196 x 75 mm
Protection Class	IP 65	IP 65	IP 65	IP 65
Heater Temperature Range	Ambient, No Heating Element	Ambient, No Heating Element	Ambient to 120°C	Ambient to 120°C

\*Lifetime warranty only available in the Continental USA

oxfordlp.com • info@oxfordlp.com • 1-800-554-4920

# Oxford Lab Products

## BenchMate® 10L Digital Hotplate Stirrer

### Features and Benefits

#### Designed for Heating to Precise Temperatures

With the included temperature sensor you are able to monitor the temperature of your solution

#### Small Footprint

Stir and heat up to 10L in less than 1 square foot

#### User Friendly

Large and clear digital display shows temperature, speed, and stir time. A dedicated "HOT" LED indicator is highly visible for user safety.

#### Powerful

Mix solutions up to 2200 rpm

#### Save Time

Last run memory feature saves time when preparing the same solutions

#### Lifetime Warranty\*

Durable equipment built to last



**Designed for Heating to Precise Temperatures**  
With the included temperature sensor you are able to monitor the temperature of your solution

#### Product Specifications for BenchMate® 10L Hotplate Stirrer

Catalog Number	MHS-10L
Maximum Volume	10L
Variable Speed	200 rpm to 2200 rpm, in 10 rpm Increments
Heater Temperature Range	Ambient to 320°C, in 1°C Increments
Temperature Sensor and Stand	Included
Temperature Selection	°C or °F
Digital Display	Yes
Pulse Mode	No
Number of PTFE Coated Stir Bars Included (25 x 8 mm)	1
Hotplate Material	Ceramic Coated Stainless Steel
Hotplate Dimensions	140 mm Diameter
Weight of Instrument	2.2 kg
Dimension (L x W x H)	248 x 156 x 104 mm
Protection Class	IP 21

\*Lifetime warranty only available in the Continental USA

Oxford Lab Products  
**BenchMate® 20L Digital Hotplate Stirrer**  
 Features and Benefits

**High Capacity Hotplate Stirrer**

Heat and mix up to 20L with a maximum speed of 2200 rpm

**Designed for Gentle to Vigorous Mixing**

A large variable speed range of 200 to 2200 rpm with optional pulse mode

**Features Designed for GLP and GMP Labs**

Large digital display simultaneously shows set temperature, actual temperature, speed, operation mode

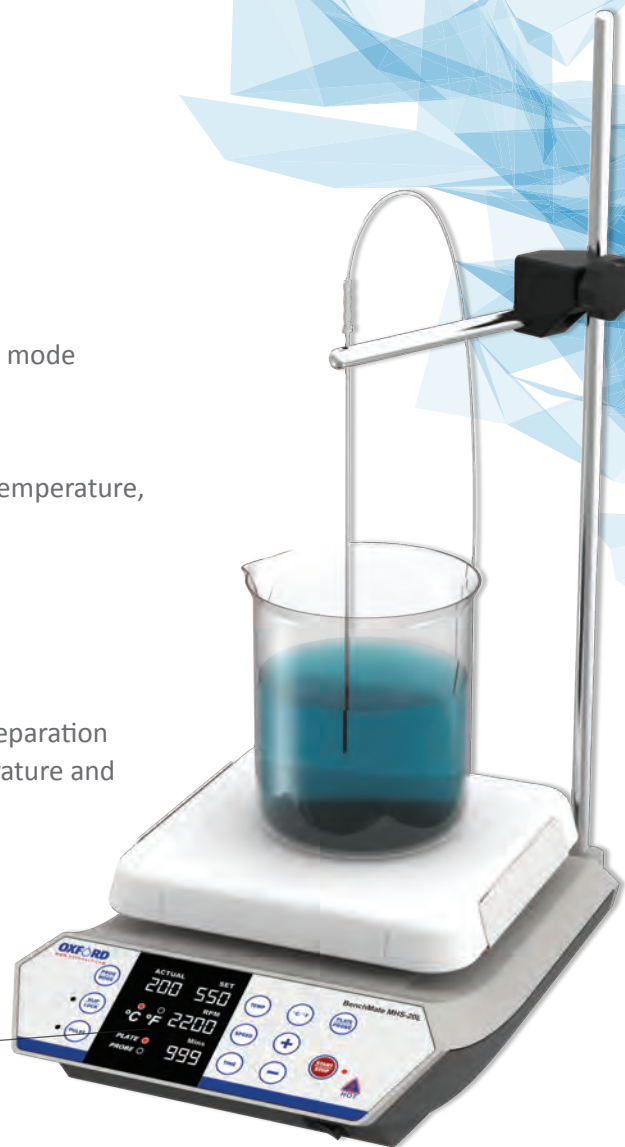
**Multiple Heating Modes**

- Slow heating with high accuracy
- Fast heating with high accuracy – heats solutions quickly
- Rapid heating with overshoot Programmable to follow solution preparation SOP – Set and save up to 99 programs. Select speed, time, temperature and pulse feature.

**Lifetime Warranty\***

Durable equipment built to last

**No toggle display**  
 Critical parameters are displayed simultaneously



**Product Specifications for BenchMate® 20L Hotplate Stirrer**

Catalog Number	MHS-20L
Optional Temperature Probe	MHS-20L-PROBE
Maximum Volume	20L
Variable Speed	200 rpm to 2200 rpm, in 10 rpm Increments
Heater Temperature Range	Ambient to 550° C
Run Time	1 Minute to 999 Minutes and Infinite
Programmable Mode	Yes; User Can Set and Save Up to 99 User Defined Programs (Protocols)
Pulse Mode	Programmable Pulse Mode – User Can Set Time from 30 to 99 Seconds
Motor Type	Brushless DC (BLDC) Motor
Hotplate Material	Nano Crystalline Glass Ceramic
Hotplate Dimensions	180 x 180 mm
Weight	5.4 kg
Dimension (L x W x H)	220 x 330 x 115 mm
Protection Class	IP 21

\*Lifetime warranty only available in the Continental USA

**OXFORD**  
**LAB PRODUCTS**

**BenchMate®**  
Pipette Tips



Oxford Lab Products  
**BenchMate® Pipette Tips**  
Features and Benefits

**Universal**

Compatible with most brands of pipettes

**Sterile**

Pipette tips are irradiated to a Sterility Assurance Level (SAL) of  $10^{-6}$ , meeting ISO 11137 standards

**Free of Contaminants**

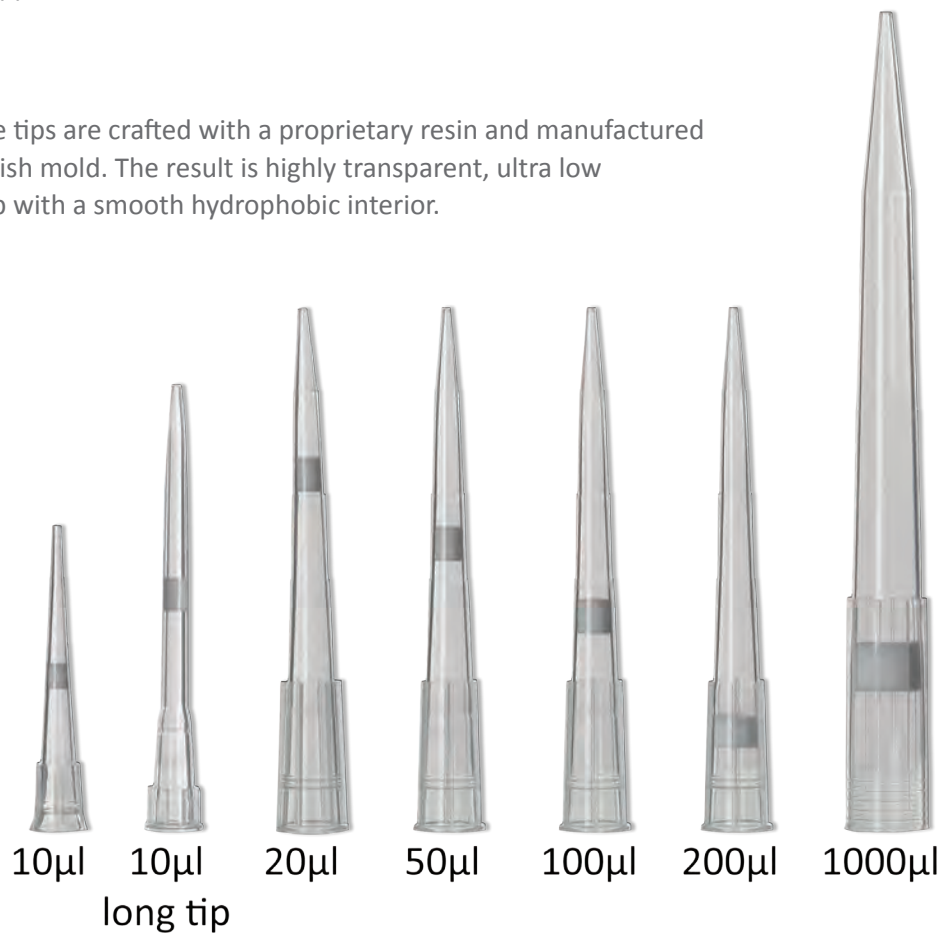
Produced in a fully automatic, human touch free clean room facility ensuring the pipette tips are free from DNase, RNase, human DNA, endotoxins, pyrogens, PCR inhibitors, lubricants, and heavy metal

**Superior Filter**

Manufactured of PE without additives to create a barrier that is ideal for molecular biology applications

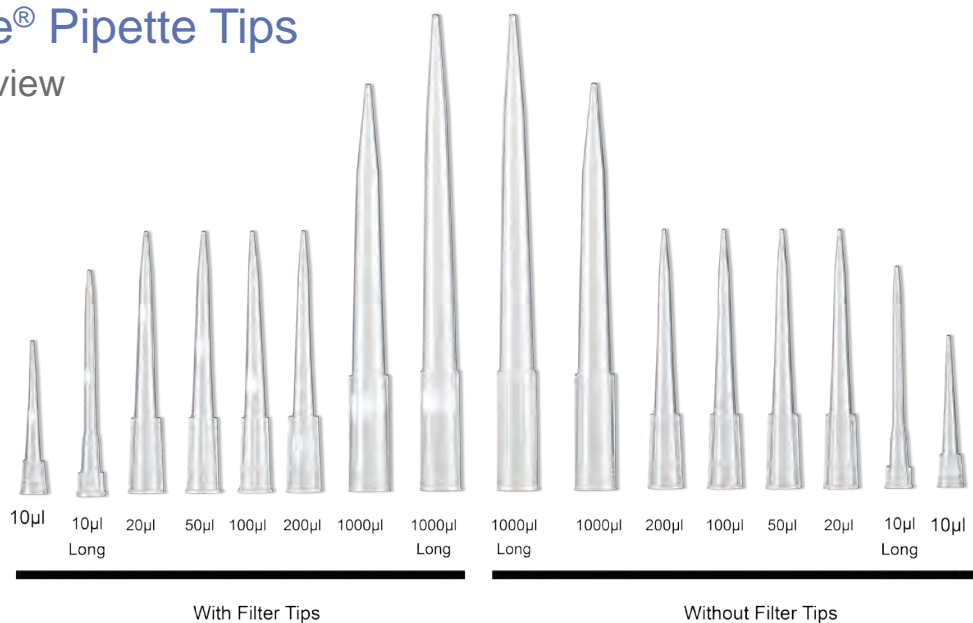
**Low Retention**

BenchMate® pipette tips are crafted with a proprietary resin and manufactured using a diamond finish mold. The result is highly transparent, ultra low retention pipette tip with a smooth hydrophobic interior.





Oxford Lab Products  
**BenchMate® Pipette Tips**  
 Product Overview

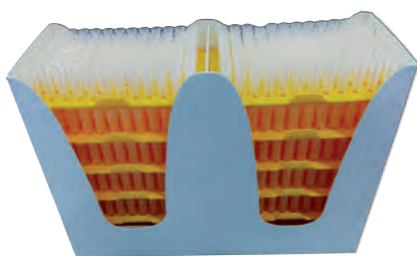


**Racks**



Individually wrapped pipette tip boxes

**Reload**



Space saving reloading stacks

**Bulk**



Self standing, zip lock bags

**Catalog Numbers**

Tip Size	Sterile Filtered Pipette Tips	Sterile Racked Pipette Tips	Sterile Reload Pipette Tips	Sterile Reload Pipette Tips
10 µL	XF-10	XR-10	XRE-10	XB-10
10 µL XL	XF-10XL	0.XR-10XL	XRE-10XL	XB-10XL
20 µL	XF-20			
50 µL	XF-50			
100 µL	XF-100			
200 µL	XF-200	XR-200	XRE-200	XB-200
300 µL	XF-300	XR-300	XRE-300	XB-300
1000 µL	XF-1000	XR-1000	XRE-1000	XB-1000
1250 µL	XF-1250	XR-1250	XRE-1250	XB-1250

Oxford Lab Products  
**BenchMate®**  
Additional Products

Original BenchMate®  
Pipette



BenchMate® L Single  
Channel Pipette



BenchMate® E  
Single and Multi Channel Electronic Pipettes



BenchMate®  
Centrifuge Tubes



Digital Vortex Mixer  
(VM-D)



Digital Plate Shaker  
(S4P-D)



Microcentrifuge  
(C8)



High Speed Microcentrifuge  
(C12V)