eppendorf



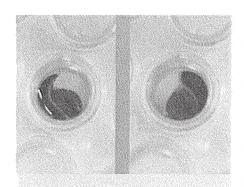
The Value of Mixing

Eppendorf Temperature Control and Mixing Instruments



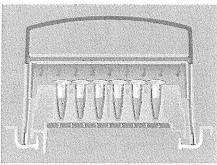
»Beyond your expectations: Eppendorf temperature control and mixing instruments.«

Eppendorf offers a wide range of high-quality, user-oriented and smart mixing and temperature control instruments. 50 years of experience in the field of mixing and temperature control enabled us to create another benchmark instrument - fitting to your needs.



Still unmixed results?

- > Outstanding 2DMix-Control technology mixes liquids in a controlled, circular movement for fast and reliable mixing in tubes and plates
- > Anti-spill technology reliably prevents lid wetting and cross-contamination
- > More information: page 4



Worried about temperature management?

- > Eppendorf ThermoTop® prevents condensation for improved assay performance
- > Individually sensor-controlled Eppendorf SmartBlock™ provides maximum temperature accuracy and block homogene-
- > Dry incubation technology reduces contamination risk and increase lab hygiene
- > More information: page 6



Suffering from non-ergonomic design?

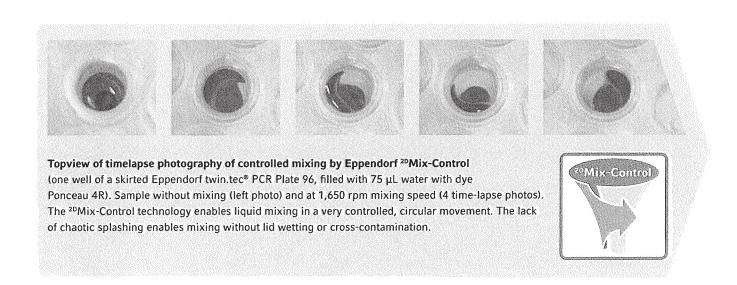
- > Eppendorf QuickRelease™ technology for easy exchange of thermoblocks
- > Low noise level for stress-free work
- > Predefined program or temperature keys for easy operation
- > More information: page 7

Sample Mixing - Eppendorf ^{2D}Mix-Control

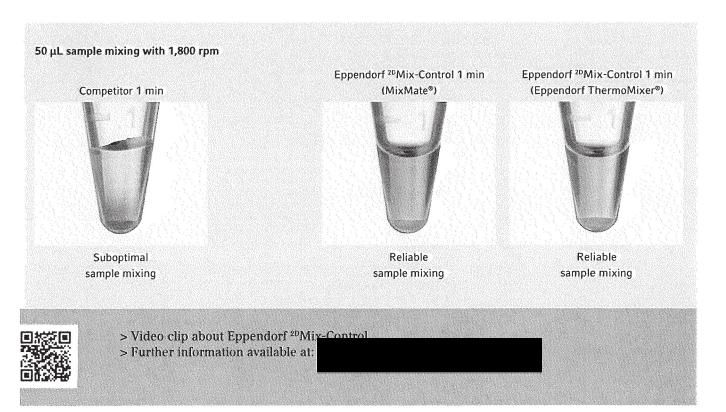
Facing irregular mixing results?

Reliable sample mixing is far beyond simple mixing, especially when talking about microliter volumes. After decades of offering mixing devices, we found a way to expand reliable mixing performance to the microliter scale:

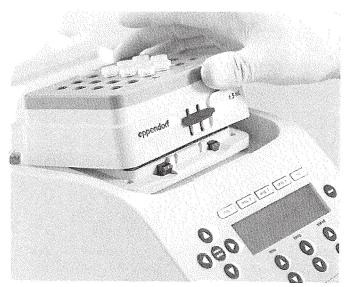
The Eppendorf ^{2D}Mix-Control. Orbital circular paths with a diameter of 3 mm and up to 3,000 rpm. Generates excellent mixing performance, even for challenging samples.



Mixing Comparison



Flexibility for Your Vessels – Eppendorf SmartBlock™



SmartBlock removal from Eppendorf ThermoMixer® C

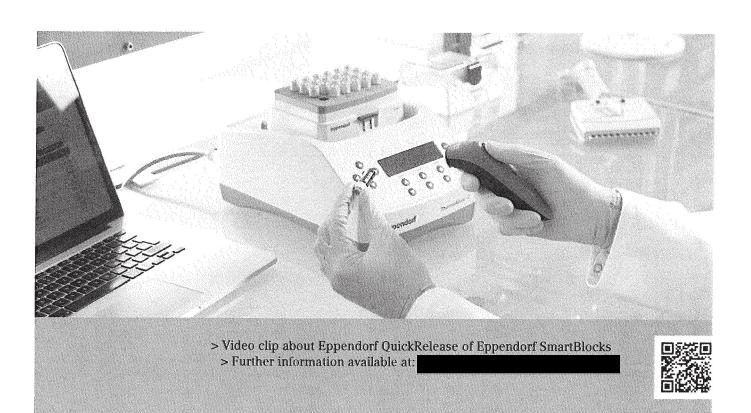
condens.protect®

Compatible Eppendorf SmartBlocks feature the condens.protect® symbol.

Using different vessel sizes within your lab workflow? Flexibility has never been this easy. Eppendorf offers a broad range of SmartBlocks for tubes from 0.2 mL to 50 mL as well as plates (MTP, DWP, and PCR plates 96/384). All SmartBlocks are equipped with the outstanding Eppendorf QuickRelease system that makes the block exchange super fast and easy. Just press the lever on the front of the block and the block can be removed - no tools are needed, done in seconds.

Benefits

- > Optimized block design supports optimal temperature transfer within your sample to receive excellent results
- > Eppendorf SmartBlock-specific calibration by integrated sensor technology maximizes temperature accuracy and
- > Every SmartBlock is individually inspected in production for temperature accuracy and is delivered incl. a serialnumber specific certificate for documentation purpose
- > Insulated SmartBlocks for ergonomic operation you won't burn your fingers
- > Automatic block recognition for safe handling





Sample Temperature - Eppendorf ThermoTop®

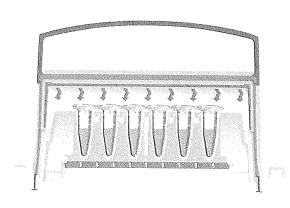
Tired of condensation in your tubes?

We combined the Eppendorf ThermoMixer with the PCR cycler approach of a heated lid and generated the Eppendorf ThermoTop.

The outstanding Eppendorf condens.protect technology reliably prevents condensation within the tube lid – sample concentrations are consistent for the incubation time. In addition, the temperature homogeneity is further improved. Get optimal sample reaction conditions to produce optimal results.

Benefits

- > Efficient and reliable condensation prevention on tube lids for safe sample heating
- > Get constant reaction conditions for optimal enzymatic performance within your sample
- > Wireless connection with automatic recognition and operation for user-friendly handling



Principle:

As soon as the Eppendorf ThermoTop is placed on the device, heating starts. The heating temperature is optimally adapted to the test temperature ensuring optimal sample safety:

No way for condensation to form in your sample tube lids.

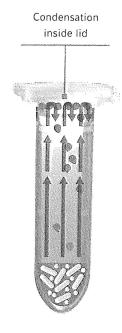
Eppendorf ThermoMixer® C	19.54
Eppendorf ThermoMixer® F	44.4
Eppendorf ThermoStat™ C	15.

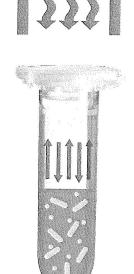


Advantages of condensation prevention during incubation

Evaporation of $H_2\mbox{O}$ and condensation within the tube lid changes the buffer concentration in reactions. Suboptimal concentrations in enzymatic reactions can result in lower enzymatic performance.

Using the Eppendorf ThermoTop effectively prevents the condensation within the tube lid, resulting in optimal reaction conditions. Besides, you save time as condensation-free tubes can skip the post-heating spinning step.







Compatible Eppendorf SmartBlocks feature the condens.protect symbol.

Ergonomics - Eppendorf PhysioCare Concept®

Annoyed by uncomfortable handling?

Ergonomics is far beyond the »ergonomically designed chair«. Eppendorf started to optimize the laboratory devices regarding ergonomics already in the early 1970s.

In 2003, we started the PhysioCare Concept, focusing on ergonomic liquid handling devices like our pipettes.

Nowadays, the Eppendorf PhysioCare Concept is broaden up to include further laboratory products as a holistic solution to harmonize the workflow in your laboratory with your health and well-being, e.g. for the Eppendorf ThermoMixer:

- > Eppendorf QuickRelease for easy and fast block exchange
- > Insulated SmartBlock for safe gripping/ no burning of fingers
- > Direct keys for convenient handling
- > Small footprint to enable position in direct arm reach at your bench
- > Standardized »user-interface concept« for intuitive handling of devices



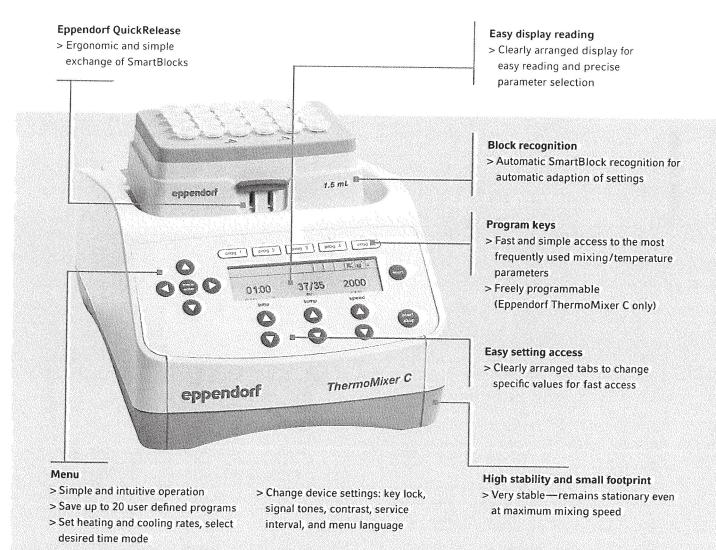


Eppendorf ThermoMixer® C - Heating/Mixing/Cooling

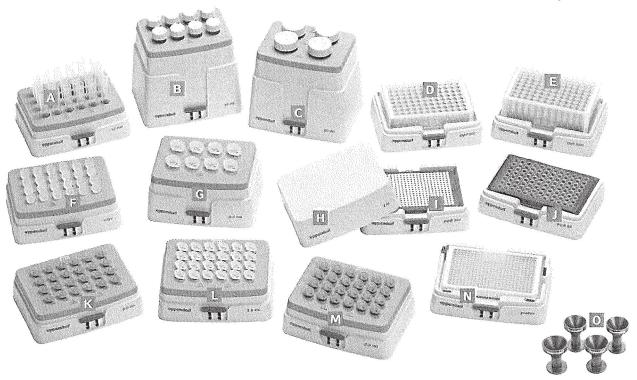
You need everything?

The Eppendorf ThermoMixer C combines excellent mixing performance with excellent temperature control to guarantee complete, dependable, and reproducible results.

Improve your assay results by mixing and incubating your samples at the same time – with highest vessel flexibility.







Benefits

- > Mixing, heating, and cooling in one instrument for high flexibility
- > All common vessels and plate formats from 5 μL to 50 mL by different Eppendorf SmartBlocks for standard applications
- > Outstanding 2DMix-Control technology results in excellent mixing performance
- > Increased mixing frequency of up to 3,000 rpm for effective sample mixing
- > Anti-spill technology prevents lid wetting and cross-contamination
- > Excellent temperature management for maximum temperature accuracy, resulting in safe sample handling
- > Compatible with Eppendorf ThermoTop (condens.protect) for condensation-free sample handling (for Eppendorf SmartBlocks up to 2.0 mL)
- > Predefined program keys and clearly arranged menu guides enables simple and intuitive operations
- > Freely programmable program keys for individual optimization
- > Eppendorf PhysioCare Concept provides ergonomic design and operation

Eppendorf SmartBlocks for the following reaction vessels (Eppendorf ThermoMixer C and Eppendorf ThermoStat C):

- A. 24× lab vessels, 12 mm in diameter
- B. 8 × 15 mL conical tubes
- C. 4 × 50 mL conical tubes
- D. Eppendorf Deepwell Plates 96/500 μL
- E. Eppendorf Deepwell Plates 96/1,000 μL
- F. 24x cryotubes
- G. 8 × 5.0 mL Eppendorf Tubes®
- H. Lid for Eppendorf SmartBlocks plates, PCR 96, PCR 384, 0.5 mL, 1.5 mL, and 2.0 mL
- 384-well PCR plates
- J. 96-well PCR plates, 0.2 mL PCR tubes
- K. 24×0.5 mL vessels
- L. 24×1.5 mL vessels
- M. 24×2.0 mL vessels
- N. MTPs and deepwell plates
- O. 4 × 25 mL adapter for SmartBlock 50 mL

> www.eppendorf.com/thermomixer-c