

ALHYB-OV

Hybridization Oven • Rotating Bottle Holder • RT+5 °C to 100 °C • 5–30 rpm • 99 Programs

ALHYB-OV Hybridization Oven is a benchtop oven for hybridization of membranes in rotating glass bottles. A stepper motor turns the holder at 5 to 30 rpm, so a small volume of probe solution wets the whole membrane, while PID control holds the chamber from RT+5 °C to 100 °C with an accuracy and uniformity of $\leq \pm 0.3$ °C at 37 °C, and $\leq \pm 0.1$ °C inside the bottles. The standard holder takes ten 35 × 300 mm bottles or twenty 35 × 150 mm bottles; a tube holder and a rocking platform are optional. A colour LCD shows temperature, speed and time, 99 programs are stored, and a glass door shows the samples during the run.

MEMBRANE HYBRIDIZATION

ROTATING BOTTLES

RT+5 °C TO 100 °C

$\leq \pm 0.3$ °C AT 37 °C

5–30 RPM

COLOUR LCD

99 PROGRAMS

GLASS DOOR

STAINLESS STEEL CHAMBER

Document type: **Technical Specification Sheet**

Product: **ALHYB-OV Hybridization Oven with Bottle Holder**

SKU: **PRO7194**

Format: **A4 landscape • CORE-TECHSPEC 1.2**

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 **HEATING ONLY** RT+5 °C to 100 °C



ALHYB-OV • bottle holder seen through the glass door, two hybridization bottles in front



ALHYB-OV • colour display, temperature, speed and timer keys

MODEL

ALHYB-OV with bottle holder • PRO7194

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ALHYB-OV • technical specification

Hybridization oven with rotating bottle holder, RT+5 °C to 100 °C, 5–30 rpm, colour LCD, 99 programs, optional tube holder and rocking platform

10 × 35 × 300 MM BOTTLES

5–30 RPM

99 PROGRAMS

± 0.1 °C IN THE BOTTLES

MAX. LOAD 5 KG

AC 100–240 V

— Hybridization and washing in the same bottle

Product Overview

Application profile

Blot hybridization: Southern, Northern and dot blot membranes in rotating bottles.

Probe screening: screening of cloned genes and detection of specific sequences.

Washing steps: membranes are washed in the same bottle at a set temperature.

Tubes: incubation with rotation of 1.5 ml to 50 ml tubes on the optional tube holder.

Staining and destaining: gels and membranes in trays on the optional rocking platform.

Key features

Colour LCD: temperature, speed and time on one screen.

PID control: the heating rate is adjusted automatically to shorten the waiting time.

Programs: 99 programs stored.

Glass door: the samples are seen during the run.

Stainless steel interior: durable and easy to clean.

End of run: audible alarm; the chamber can hold a constant temperature.

Automatic functions: auto preheating and auto resume after a power failure.

Safety: temperature calibration and over-heating protection built in.

Why a hybridization oven

Little probe: rotation spreads a few millilitres of solution over the whole membrane.

Even temperature: ≤ ±0.1 °C inside the bottles at 37 °C.

Closed bottles: probe and wash solutions stay inside the bottle.

Quiet drive: stepper motor, maintenance-free.

One chamber, three uses: bottle holder, tube holder or rocking platform.

Core technical summary

Parameter	Specification
Model	ALHYB-OV
Product type	Hybridization oven
Temperature control range	RT+5 °C to 100 °C
Accuracy • uniformity at 37 °C	≤ ±0.3 °C • ≤ ±0.3 °C
Uniformity inside bottles	≤ ±0.1 °C at 37 °C
Speed	5 to 30 rpm
Timer	1 min to 99 h 59 min, or continuous
Programs	99
Maximum load	5 kg

TEMP. CONTROL
RT+5 °C to 100 °C

UNIFORMITY IN BOTTLES
≤ ±0.1 °C

SPEED
5–30 rpm

BOTTLES
10 × 300 mm • 20 × 150 mm

RT = room temperature. Hybridization bottles, membranes, probes and reagents are not part of the instrument unless stated in the quotation. Suitability for a specific protocol is confirmed in the COLO.Science quotation.

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Technical Specifications

Parameter	ALHYB-OV	Parameter	ALHYB-OV
Temperature setting range	0 °C to 100 °C	Maximum load	5 kg
Temperature control range	RT+5 °C to 100 °C	Auto preheating	Yes
Temperature accuracy	≤ ±0.3 °C at 37 °C	Constant temperature at the end of run	Yes
Uniformity inside the oven	≤ ±0.3 °C at 37 °C	Auto resume	Yes
Uniformity inside the bottles	≤ ±0.1 °C at 37 °C	Power	1000 W
Display resolution	0.1 °C	Voltage • fuse	AC 100–240 V, 50/60 Hz • 250 V 3 A, Ø 5 × 20
Speed range	5 to 30 rpm	Interior dimensions	267 × 326 × 273 mm
Time range	1 min to 99 h 59 min, or continuous	Overall dimensions	428 × 400 × 470 mm
Programs	99	Weight	25 kg

RT = room temperature; the control range starts 5 °C above the temperature of the room the instrument stands in. Accuracy and uniformity are supplier data at 37 °C.

⌘ Holders and platform

SKU	Holder	Capacity	Supply
PRO7195	Hybridization bottle holder	10 bottles 35 × 300 mm, or 20 bottles 35 × 150 mm	Standard, included
PRO7196	Tube holder, 4 plates	Per plate: 22 tubes of 1.5/2.0 ml, or 8 tubes of 10/15 ml, or 6 tubes of 50 ml	Optional
PRO7197	Rocking platform	Platform 270 × 215 mm	Optional

One holder or the platform is in the chamber at a time. The plate type of the tube holder is chosen with the order.

Rotation, platform and alarm

Rotation: the holder turns continuously at the set speed, 5 to 30 rpm.

Rocking platform: optional, for trays with gels or membranes, 270 × 215 mm.

End of run: an alarm sounds; the oven can go on holding the temperature.

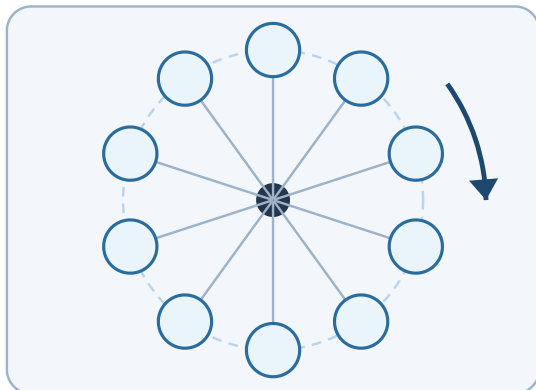
Power failure: the run resumes automatically when the supply returns.

Run sequence

- 1 • **Program:** set temperature, speed and time, or recall one of the 99 programs; the oven preheats.
- 2 • **Load:** roll the membrane into the bottle, add the solution, close the bottle and clip it into the holder; balance the load.
- 3 • **Run:** close the door and start; the holder turns and the chamber holds the temperature.
- 4 • **End:** the alarm sounds; change the solution for washing or take the bottles out.

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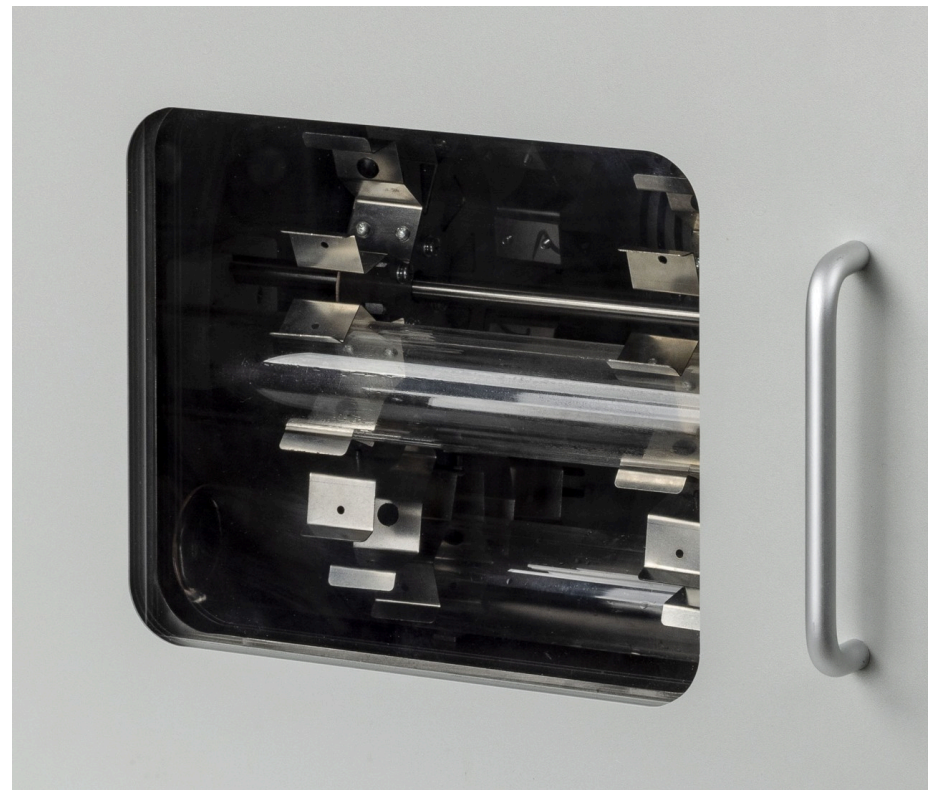
Rotating bottle holder



10 positions · 5 to 30 rpm

Schematic side view: ten bottle positions around the axis. Two short 150 mm bottles fit in line in place of one 300 mm bottle.

Bottle holder through the glass door



Stainless steel bottle holder with spring clips and a hybridization bottle in place.

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ALHYB-OV • control panel with colour display

Ordering information

Item	Value
ALHYB-OV hybridization oven with bottle holder	PRO7194
Hybridization bottle holder — included with PRO7194; also as spare	PRO7195
Tube holder, 4 plates, optional	PRO7196
Rocking platform, optional	PRO7197
Supply	AC 100–240 V, 50/60 Hz
Delivery	Oven with bottle holder, mains cable, operating manual

Configuration checklist

Method: membrane hybridization in bottles, tube incubation or rocking.

Bottles: length 300 mm or 150 mm, diameter 35 mm, and how many per run.

Temperature: hybridization and wash temperatures within RT+5 °C to 100 °C.

Slides instead of membranes? ALHYB runs FISH on 12 microscope slides.

Bench space: 428 × 400 × 470 mm, 25 kg.

SUPPLIER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the method, the bottle or tube format and the temperatures of your protocol. COLO.Science will confirm the holder, the bottles and the delivery time.

QUICK CONTACT

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COLO.SCIENCE • HYBRIDIZATION CONFIGURATION SUPPORT

Which holder fits your hybridization protocol?

Send the method, the bottle or tube format and the temperatures. COLO.Science will confirm the holder, the bottles and the delivery time.

Web: colo.si

Ask us:

Price and current discount, delivery time, application support and service — write to sales@colo.si or call us.

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