

ALHYB

Slide Hybridization System • 12 Slides • RT+5 °C to 100 °C • Touch Screen • 300 Programs

ALHYB Slide Hybridization System automates the temperature steps of in situ hybridization on microscope slides. Up to twelve slides lie on a flat heated platform under a closing lid; the instrument runs denaturation and hybridization one after the other, without moving the slides to a second device. The platform is controlled from RT+5 °C to 100 °C with an accuracy and uniformity of ± 0.5 °C, heats from 37 °C to 95 °C in ≤ 2 min and cools from 95 °C to 45 °C in ≤ 6 min. A touch screen is used to write and start programs; 300 custom programs are stored. Three operating modes cover denaturation with hybridization, hybridization alone and multi-step runs.

IN SITU HYBRIDIZATION

FISH

12 SLIDES

TOUCH SCREEN

RT+5 °C TO 100 °C

± 0.5 °C

300 PROGRAMS

3 OPERATING MODES

AUTO COOL-DOWN

Document type: **Technical Specification Sheet**

Product: **ALHYB Slide Hybridization System**

SKU: **PRO4347**

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

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 **HEATING • FAST COOL-DOWN** RT+5 °C to 100 °C



ALHYB • lid open, slides on the heated platform, humidity sponges in the lid



ALHYB • lid closed, touch screen at the front

MODEL

ALHYB • PRO4347

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ALHYB • technical specification

Slide hybridization system for 12 microscope slides, denaturation and hybridization in one run, RT+5 °C to 100 °C, touch screen, 300 programs

12 SLIDES • TOUCH SCREEN • 300 PROGRAMS • 3 OPERATING MODES • 37 → 95 °C IN ≤ 2 MIN • 95 → 45 °C IN ≤ 6 MIN — Denaturation and hybridization on one platform

Product Overview

Application profile

In situ hybridization: temperature steps for FISH and other slide-based hybridization methods.

Denaturation and hybridization: both steps run on the same platform, one after the other.

Hybridization only: one temperature held for the set time.

Multi-step protocols: several temperature and time steps in one program.

Routine series: up to 12 slides per run, programs recalled from memory.

Key features

Touch screen: full touch-screen operation for writing, reading and starting programs.

Programs: 300 custom programs stored.

Operating modes: denaturation & hybridization, hybridization, multiple-step operation.

Automatic warm-up: the platform is brought to temperature before the run.

Automatic cool-down: the platform is cooled when the run is over.

Power recovery: after a power failure the run continues when the supply returns.

Platform control: high-precision temperature control with low fluctuation.

Humidity sponges: two sponges in the lid, moistened with purified water before the run.

Why this hybridization system

Less manual work: the instrument carries out the temperature steps that are otherwise done by hand.

Less reagent exposure: slides stay under the closed lid through the run.

Reproducible runs: the same stored program gives the same temperatures and times each time.

Fast temperature change: 37 °C to 95 °C in ≤ 2 min; 95 °C to 45 °C in ≤ 6 min.

Compact: 440 × 220 × 120 mm, 4.5 kg.

Core technical summary

Parameter	Specification
Model	ALHYB
Product type	Slide hybridization system
Capacity	12 slides
Temperature setting range	0 °C to 100 °C
Temperature control range	RT+5 °C to 100 °C
Accuracy • uniformity	≤ ±0.5 °C • ≤ ±0.5 °C
Timer	1 min to 99 h 59 min
Programs	300
Operation	Touch screen

TEMP. CONTROL
RT+5 °C to 100 °C

ACCURACY
≤ ±0.5 °C

HEATING 37 → 95 °C
≤ 2 min

CAPACITY
12 slides

RT = room temperature. FISH = fluorescence in situ hybridization. Probes, reagents and slides are not part of the instrument. Suitability for a specific protocol is confirmed in the COLO.Science quotation.

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Technical Specifications

Parameter	ALHYB	Parameter	ALHYB
Temperature setting range	0 °C to 100 °C	Operation	Touch screen
Temperature control range	RT+5 °C to 100 °C	Programs	300 custom programs
Temperature accuracy	≤ ±0.5 °C	Operating modes	3
Temperature uniformity	≤ ±0.5 °C	Automatic warm-up • automatic cool-down	Yes • Yes
Heating time	≤ 2 min, from 37 °C to 95 °C	Power recovery	Yes, automatic
Cooling time	≤ 6 min, from 95 °C to 45 °C	Power	350 W
Time range	1 min to 99 h 59 min	Voltage • fuse	AC 220 V or AC 110 V, 50/60 Hz • 250 V 3 A, Ø 5 × 20
Capacity	12 slides	Dimensions • weight	440 × 220 × 120 mm • 4.5 kg

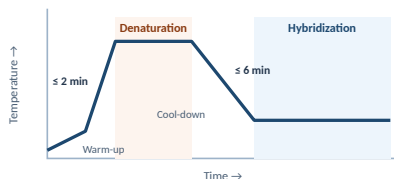
RT = room temperature; the control range starts 5 °C above the temperature of the room the instrument stands in. The mains voltage version is confirmed in the quotation.

Operating modes

Operating modes	What the instrument does	Used for
Denaturation & hybridization	Heats the platform to the denaturation temperature, holds it, cools to the hybridization temperature and holds it for the set time.	Protocols in which probe and sample are denatured together on the slide.
Hybridization	Holds one temperature for the set time.	Protocols in which denaturation is done separately, and for incubation steps.
Multiple-step operation	Runs several temperature and time steps one after the other.	Protocols with additional steps before or after hybridization.

Temperatures and times of every step are set by the user and stored as a program. The instrument controls temperature and time; it does not dispense reagents.

Temperature course in denaturation & hybridization mode



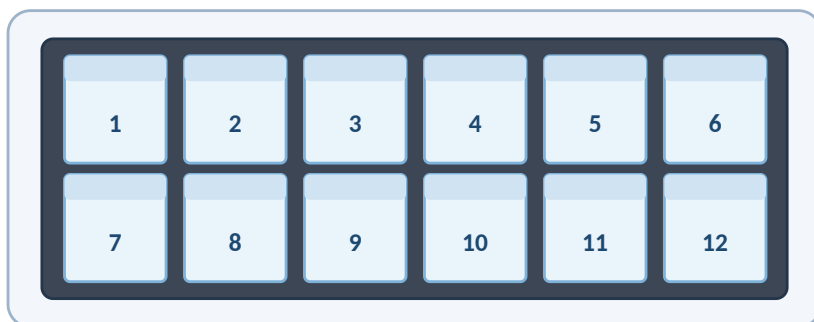
Schematic. Step temperatures and hold times are set by the user; the two times shown are the heating and cooling times of the platform between 37 °C, 95 °C and 45 °C.

Run sequence

- 1 • Program:** choose the mode and enter temperatures and times on the touch screen, or recall a stored program.
- 2 • Load:** moisten the two humidity sponges with purified water (30 ml each) and fit them in the lid; place the prepared slides on the platform and close the lid.
- 3 • Run:** the instrument warms up and carries out the steps of the program.
- 4 • End:** the platform cools down automatically when the run is over.

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Slide platform



Heated platform · 12 slides

Schematic top view: 12 slide positions in two rows of six. Slide size and position pitch are confirmed with the quotation.

Rear view



Mains inlet with switch at the rear, and a fan.

View from above, lid open



Slide platform with hot-surface marking, lid with a matching recess for each slide, touch screen at the front.

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ALHYB • lid open, platform for 12 slides and touch screen

Ordering information

Item	Value
ALHYB slide hybridization system	PRO4347
Capacity	12 slides
Temperature	RT+5 °C to 100 °C
Programs	300, three operating modes
Supply	AC 220 V or AC 110 V, 50/60 Hz
Delivery	Instrument, mains cable, operating manual

Configuration checklist

Method: FISH or another slide-based hybridization method.

Slides per run: up to 12.

Temperatures: denaturation and hybridization temperatures within RT+5 °C to 100 °C.

Lowest temperature: control starts 5 °C above room temperature.

Mains voltage: confirm the voltage and the plug type before the order is placed.

SUPPLIER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the method, the number of slides per run and the temperatures and times of your protocol. COLO.Science will confirm that ALHYB fits and the delivery time.

QUICK CONTACT

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COLO.SCIENCE • HYBRIDIZATION CONFIGURATION SUPPORT

Does ALHYB fit your hybridization protocol?

Send the method, the number of slides per run and the temperature steps. COLO.Science will confirm the fit, the mains version and the delivery time.

Web: colo.si

Ask us:

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

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