

## Cell Growth and Imaging Glove Box

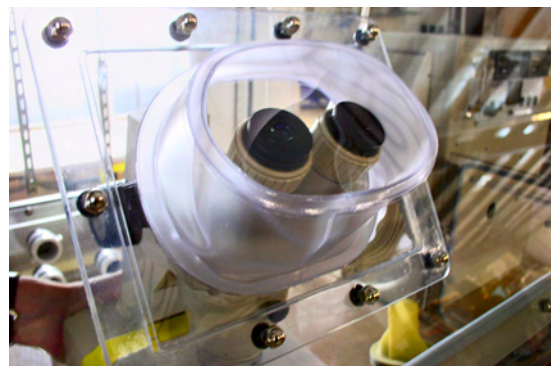


**Manipulate AND image  
your live cells  
in the same controlled  
biologic environment**

**C**oy Laboratory Products, a well known supplier of glove boxes for life science research, provides a solution to the need to perform tissue culture and imaging in the same controlled environment (CO<sub>2</sub>, O<sub>2</sub>, temperature, and humidity).

This is done by placing your microscope in a controlled glove box that contains both a workspace for cell handling and a Humidified Incubation Box, a separate cabinet in the glove box. The microscope sits outside of the Incubation Box yet inside the glove box in a noncondensing environment with the oculars readily accessible through a specially designed **microscope View Port** that fits into the wall of the glove box.

Gloved or gloveless sleeves are used to enable manipulation of the microscope controls. Any tubing or cords can be easily brought through the glove box walls and sealed in place using feed-thru adapters. Glove box walls can be constructed of flexible vinyl, acrylic, polycarbonate, or aluminum depending upon the application.



**Microscope View Port**

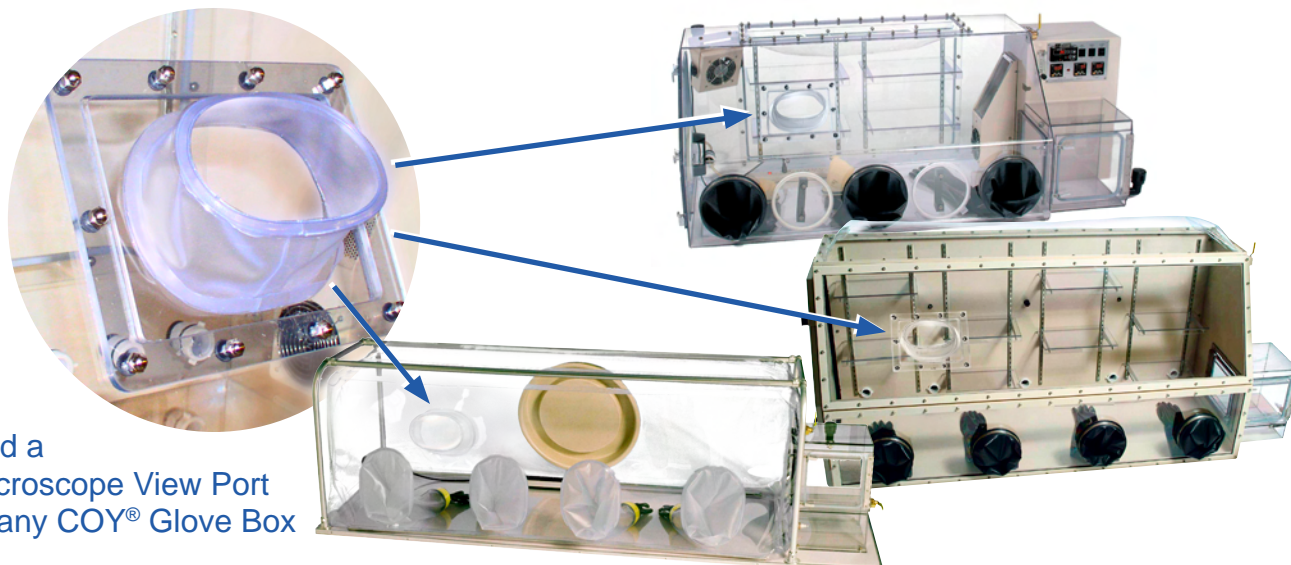
**COY LABORATORY  
PRODUCTS INC.**

[www.coylab.com](http://www.coylab.com)

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**Please see other side for product details.**

# Cell Growth and Imaging Glove Box



Add a  
microscope View Port  
to any COY® Glove Box

## Features and Benefits

- Mimic physiologic or pathologic environments with respect to temperature, humidity, CO<sub>2</sub> and O<sub>2</sub> without premixed gases.
- Eliminate experimental error due to environmental disruption as workspace and microscope are in the same environment.
- Flexible large sample capacity for dishes, plates, or flasks.
- Change the culture conditions while imaging to find thresholds for biologic activity.
- See transient effects that can be lost when you image outside of a controlled environment.
- Glove Box is easily configured around nearly any imaging system without complex attachments to your microscope.
- Custom design location of sleeves and microscope viewport to allow for ergonomic positioning.
- Dehumidification external to incubation area protects electronics from condensation.
- Cabinet-style microscopes designed to fit into incubators can be used in humidified glove boxes (eliminates need for the Incubation Box).

## Control Ranges

- Temperature: ambient +4 to 40C
- O<sub>2</sub>: 0-60% in 0.1% increments
- CO<sub>2</sub>: 0-20% in 0.1% increments
- Humidity in glove box: 33% and higher (adjust to create noncondensing environment)
- Humidity in incubation box: saturated at temperature



Harvest, culture, isolate, maintain and image your cells while controlling temperature, humidity, CO<sub>2</sub> and O<sub>2</sub>

See [www.coylab.com](http://www.coylab.com) for photos and call **734.475.2200** for a consultation on selecting the right glove box for your needs.

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