

Product Diagram



Figure 1

Neo Biotech

74, rue des Suisses
92000 Nanterre - France
Tel. : (33) 9 77 40 09 09
Fax : (33) 9 77 40 10 11
email : info@neo-biotech.com
Website : <https://www.neo-biotech.com>

Neo Biotech

UV Pipette Carousel

Instruction Manual



Introduction

Thank you for your purchase of the NeoLine™ UV Pipette Carousel. NeoLine UV is designed to protect sensitive assays and cell lines from contamination caused by carryover on pipette shafts. The 254nm germicidal lamp in the base of the NeoLine UV is reflected by a highly mirrored surface to expose the bottom part of the pipette shaft to 360° of UV light. In one 28 minute exposure, UV light breaks the bonds in DNA, causing thymine dimers to form. This results in microorganisms being unable to grow or replicate, and, ultimately, in cell death.

Before operating the NeoLine UV Pipette Carousel, please read this instruction manual carefully

Technical Data

Capacity:	6 single channel pipettes
Lamp:	254nm, UV-C, non-ozone, 450µW
Lamp Life:	Approximately 2000 hours
Cycle Time:	28 minutes
Housing:	UV-resistant polycarbonate
Reflector:	Mirrored polyester film
Dimensions:	17cm diameter, 33cm height
Electrical:	100-240V, 50/60 Hz, 1A
Warranty:	1 year

Setting up the NeoLine UV

Carefully remove the NeoLine UV Pipette Carousel from the packaging then place on a flat, stable surface away from direct sunlight, water sources and heat sources. Keep the packaging until the unit is shown to be in proper working order.

Ensure the proper power cord has been received for the local power supply. Plug the power cord into the back of the nUVaClean and then plug the other end into a properly grounded wall socket.

The NeoLine UV is now ready for use.

Operation

The NeoLine UV Pipette Carousel will accommodate 6 single pipettes in the universal holsters. Pipettes should be placed in the carousel with the tip ejector to the outside as shown in Figure 1.

Note: Use with UV resistant pipette brands only, e.g Gilson®, Eppendorf® (the shafts on some inexpensive pipettes will yellow and become brittle over time from UV exposure). If in doubt, check with your pipette's manufacturer. Most reputable brands are UV resistant.

Remove the pipette tip before placing the pipette into the holster. For best results, the shaft of the pipette should be wiped with ethanol and a soft cloth before placing in the carousel. It is also recommended that steel tip ejectors be occasionally autoclaved.

To begin the Auto-Decon™ cycle, press the "Start" button on the base of the unit as show in Figure 2, below. The Auto-Decon cycle will start immediately and take 28 minutes to complete. The chamber of the NeoLine UV will glow slightly when the UV light source is activated.



Figure 2: Position of Start button on the base

Once the cycle is complete, the pipettes can be removed from the carousel and used immediately. There is no waiting for pipettes to dry or cool and no recalibration is necessary. Alternatively, pipettes may be stored in the carousel for future use.

! Never look down into the pipette chamber when the Auto-Decon cycle is running.

While the NeoLine UV has been designed for user safety, looking in to an empty pipette position may expose the user to UV light. UV light can cause damage to the eyes and should be avoided.

Operation (cont'd)

The carousel can be rotated for easier access to the pipettes. Rotate the carousel by the knob at the top of the unit only.

Care and Maintenance

The exterior of the NeoLine UV should be wiped down periodically with a soft cloth. Do not immerse the unit in water or place anything other than a pipette in the holsters. Do not attempt to clean the mirrored surface. Should cleaning be required, please contact MTC Bio.

! Take care not to let any particulate matter enter the NeoLine UV as this will reduce the effectiveness of the germicidal lamp. Do not place pipette tips in the NeoLine UV.

! If the NeoLine UV will not be used for an extended period of time, unplug the unit and cover the carousel to prevent dust from entering the UV chamber.

! DO NOT ATTEMPT TO OPEN THE NEOLINE UV. There are no user serviceable parts inside. Opening the unit can result in injury and will void the warranty. Touching the light source can leave residues that will cause serious damage to the light source.

The lamp in the NeoLine UV contains mercury and must be recycled. The lamp has an expected lifetime of 2000 hours. Should replacement be required, please contact Neo Biotech by phone at (33) 9 77 40 09 09 or email to info@neo-biotech.com

Warranty

NeoLine UV Pipette Carousel is guaranteed to be free of defects in material and workmanship for a period of 1 year from purchase. The warranty includes replacement of the bulb. Damage from neglect, abuse, misuse or dropping the unit will not be covered under warranty.

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