



Specification Sheet caproBox™

caproBox™

UV Light and Cooling Device

Introduction

The caproBox™ is specifically developed for UV photo cross-linking of samples during caprotec's™ CCMS process. The instrument combines timed UV irradiation and temperature control in one system and allows a convenient, safe, and reproducible utilization of photo cross-linking of CCMS samples. The following features make it ideally suited for the CCMS process:

- Up to 96 samples in standard reaction tubes can be irradiated simultaneously
- Precise temperature control of the samples within 0 °C to 4 °C during irradiation
- Adjustment of the irradiation time possible
- Automatic shut down of UV irradiation when protection cover is opened
- Benchtop, space saving design
- Easy and intuitive to operate



caproBox™ (110 V)

Overview

The caproBox™ is used for the cross-linking of affinity bound proteins to Capture Compounds™. During this process, the photoreactive group of the Capture Compound is activated and covalently binds to the targeted proteins. Constant cooling of the samples prevents damage and denaturation of proteins and enables a gentle UV irradiation.

Technical Specifications

Power Supply

Nominal voltage: 230 V (1-5010-001)
 110 V (1-5010-003)

Nominal frequency: 50 Hz (1-5010-001)
 60 Hz (1-5010-003)

Nominal power: 150 W

Hardware protection

Fusible:
 inactive, 2 A/250 V, 5 x 20 mm
 breaking capacity 1,5 kA at 250 V ~
 and ohmic load, ceramic tube with
 extinguishing agent

Electrical Safety

Protection class I:
 IEC/EN 61010-1
 VDE 0411-1

Interference emission:
 IEC/EN 61326-1 /2006
 IEC/EN 55022 Class B

Interference immunity:
 IEC/EN 61000-3-2.12:2003
 + A2/02.05
 IEC 61000-3-3:1995 + A1/06.01
 + A2/11.05

Environmental conditions

Operating temperature:
 0 °C\32 °F to +30 °C\86 °F

Storage temperature:
 -10 °C\14 °F to +50 °C\122 °F

Rel. humidity:
 max. 75 %

Mechanical specifications

Mechanical Rating:
 IP 20 EN 60529/Type 1 (NEMA)

Dimensions:
 280 x 380 x 145 mm (W x D x H;
 w/o stand)

UV Light

Electrical power: 3 x 9 W

Wavelength: 310 nm

Irradiance: $I_e \geq 10 \text{ mW/cm}^2$

Autotimer

Irradiation time: max. 10 h

Accuracy: $\pm 1 \text{ s}$

Thermoblock

Cooling capacity: max. 70 W

Nominal current: 8 A

Nominal voltage: 12 V

WEEE-Reg.-Nr. DE 16045286

Ordering information

caproBox™ UV Light and Cooling Device

Item number: 220 V/50 Hz 1-5010-001
 110 V/60 Hz 1-5010-003

Contact

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