

WEP-N Vertical Electrophoresis Cell

Instruction

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Nacalai Tesque, Inc.

Introduction

WEP-N Vertical Electrophoresis Cell is specifically designed for running the Bullet PAGE One Precast Gel produced by Nacalai Tesque, Inc. The cell is made of durable polycarbonate and tolerates high voltage running conditions for ultra-high speed electrophoresis.

Product Warranty

WEP-N Vertical Electrophoresis Cell comes with a one-year limited warranty. If a cell defect arises and valid claim is received within the warranty period of one year from the date of purchase, repair or replacement will be offered at no charge.

This warranty does not apply;

1. To damage caused by misuse, accidents or disaster.
2. To the cell that has been modified or altered.
3. To damage caused by using any parts not provided along with the cell.
4. To damage caused by using unsuitable chemical reagents or samples.

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Safety Information

WEP-N Vertical Electrophoresis Cell is designed to meet EMC Regulation, the international safety standard. The cell is safe to use when operated in accordance with this instruction. If the cell is modified or used in a manner not specified in this instruction then the cell will;

1. Void the warranty..
2. Void EMC Regulation.
3. Create a potential safety hazard..

Nacalai Tesque is not responsible for any injury or damage caused by misuses or modifications of the cell.

WEP-N Vertical Electrophoresis Cell must be used with an external DC power supply designed for electrophoresis applications. The maximum specified operation parameters for the cell are as follows;

- | | |
|-----------------------------------|-----------|
| (1) Maximum voltage limit | 600 volts |
| (2) Maximum power limit | 200 watts |
| (3) Maximum Operating temperature | 40°C |

Since the current enters the cell through the lid assembly, the electrical connection to the cell is automatically broken when the lid is removed. Do not attempt to use the cell without the cell lid. After electrophoresis is complete, turn off the power supply and remove the cell lid.

Specification

Number of gels per run:	Up to 2 gels
Gel cassette size:	100 x 80mm
Overall Dimensions:	154 x 88 x 146 mm (L x W x H)
Upper buffer tank capacity:	180 ml
Lower buffer tank capacity:	600 ml

*Less volume of buffer in lower tank may cause cracking of glass cassettes.

Material: Polycarbonate

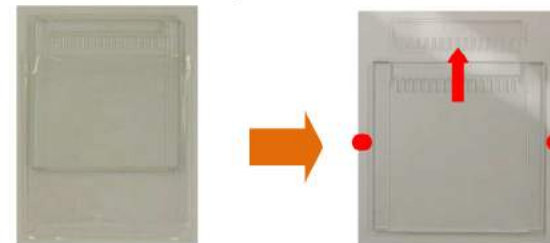
Weight: 2 KG

Cautions

1. Make sure a grounding wire is properly connected to the DC power supply.
 2. Avoid spilling water onto the cell.
 3. There is a gap between the lid and the buffer tank when the cell is fully assembled. Do not cover the gap.
 4. At the end of the run, turn off the power and disconnect the cables before remove the lid.
 5. There is a risk of electric shock when working with electrical equipment. To minimize the risk, always operate in a safe area.
 6. To avoid contamination, wash the cell with detergents and rinse with deionized water after each use. Do not use organic solvents such as ethanol for washing, and extra care must be taken not to cut the platinum wires.
- Wear protective gloves when working with lab equipment.

Setup and Run Electrophoresis

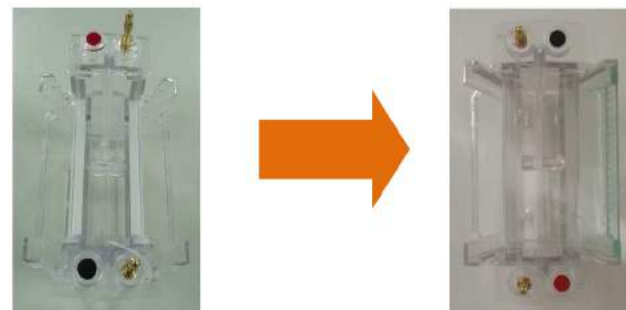
1. Bullet PAGE One Precast Gel Preparation



Cut open the gel pouch with scissors and remove the cassette.

While holding the cassette by its edges (red dots) with one hand, quickly pull the comb out of the cassette with the other hand.

2. Bullet PAGE One Precast Gel Setup



Insert the cassette deeply into the gel cassette holder with the short glass plate facing inward.

In this step, hold both tall and short glass plates at the same time, making sure that the glass plates do not shift.

*Shifting glass plates may cause detachment of the gel from the glass

plates resulting insufficient separation patterns.

***Wetting a gasket with running buffer helps smooth insertion of the cassette.**

Place the gel cassette holder into the lower buffer tank.

3. Start Electrophoresis

Place the lid on the cell aligning the color coded banana plugs on the cassette holder and the jacks on the lid.

Gel Removal

1. Turn off the power supply and disconnect the electric cables.
2. Remove the lid from the cell.
3. Remove the gel cassette holder from the lower buffer tank.
4. Remove the gel cassette from the cassette holder.



Technical Support

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