



Instructions for Use (IFU)
Electrophoresis Tank
REF.: HET01 (Single) & HET02 (Double)

1. INTRODUCTION & IDENTIFICATION

Product Name: Electrophoresis Tank HET

Models: 1) HET01: Single gel capacity (1 spot)
2) HET02: Double gel capacity (2 spots).

UDI-DI: 1) 5213012290498 HET01
2) 5213012290504 HET02

Manufacturer: DIMITRIADIS IOANNIS AND SON PC, HELLABIO. Steliou Kazantzidi 47, 57001, Themi, Greece.

Intended Purpose: The Hellabio Electrophoresis Tanks (HET Series) are high-quality horizontal tanks designed for diagnostic electrophoresis. They are intended for use in clinical laboratories to provide a stable electrolytic environment for the separation of proteins, hemoglobins, and other analytes using agarose gels.

2. TECHNICAL SPECIFICATIONS

Feature	HET01 (Single)	HET02 (Double)
Number of Gels	1 Gel (76x101 mm)	2 Gels (76x101 mm)
Buffer Capacity	50 ml (25ml per cell)	100 ml (50ml per cell)
Max Voltage	300V DC	300V DC
Max Current	400 mA	400 mA
Dimensions	13.5 x 8.5 x 5.5 cm	27.0 x 8.5 x 5.5 cm
Material	PMMA (Medical Grade)	PMMA (Medical Grade)
Electrodes	99.9% Pure Platinum	99.9% Pure Platinum

3. PACKAGE CONTENTS

- 1 x Horizontal Electrophoresis Tank
- 1 x Safety Cover with ventilation slots
- Gel Bridge(s) (1 for HET01 / 2 for HET02)
- Instructions for Use (this manual)

4. OPERATING INSTRUCTIONS

1. **Preparation:** Place the tank on a level surface.
2. **Buffer Filling:** Add the correct volume of electrophoresis buffer (as specified above) into each cell. Ensure levels are equal.
3. **Gel Placement:** Position the agarose gel film on the bridge(s) and place the bridge into the tank.



4. **Closing:** Secure the transparent cover onto the tank.
5. **Connection:** Connect the banana jacks to a compatible Power Supply (e.g., Hellabio HPS01).
6. **Run:** Turn on the power supply. The LED indicator on the tank will light up, confirming correct polarity and current flow.
7. **Completion:** Once the run is finished, turn off the power supply before removing the cover.

5. MAINTENANCE & CLEANING

- **Routine Cleaning:** After each use, discard the buffer and rinse the tank thoroughly with **distilled water ONLY**.
- **Prohibited Substances:** **NEVER** use alcohol, organic solvents, or abrasive cleaners. These will cause permanent damage (cracking/clouding) to the PMMA chassis.
- **Descaling (Every 3 months):** To remove salt deposits, add a 5% Acetic Acid or Citric Acid solution for 15 minutes. Rinse thoroughly with distilled water.
- **Electrodes:** Handle with care. Do not touch or bend the platinum wires during cleaning.

6. SAFETY WARNINGS [!]

- **Electrical Safety:** Always isolate the tank from the power supply before opening the cover.
- **Operating Limits:** Do not exceed **300V DC**.
- **Temperature:** Run electrophoresis at room temperature (<25°C) for optimal resolution.
- **Intended Use:** This device must be operated only by trained laboratory personnel.



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Code	IFU/HET_V2_EN	Syntax	Quality Manager
Edition	2	Approval	CEO

SYNTAX (NAME-TITLE-SIGNATURE)
Quality Manager Gavriilidou Maria

APPROVAL (NAME-TITLE-SIGNATURE)
CEO Dimitriadis Ioannis

LIST OF MODIFICATIONS			
Revised edition	Date	Description	Adopted by
2	26/03/2026	Update format and addition of symbols for regulatory compliance	CEO

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