

Nest 706001

Nest Scientific 706001 Polystyrene Cell Culture Dish Instruction Manual

Model: 706001

1. INTRODUCTION

The Nest Scientific 706001 Polystyrene Cell Culture Dish is designed for various cell culturing applications requiring microscopic examination. These dishes are tissue culture treated, sterile, and feature a flat, transparent surface for clear observation. Numeric indicators on the bottom assist in identifying specific cell locations.

Key features include:

- Sterilized by E-Beam for aseptic use.
- Vacuum plasma TC treatment ensures excellent cell adherence.
- Flat transparent surface provides distortion-free observation.
- Stackable design for convenient storage and handling.
- Non-pyrogenic material.



Figure 1: Nest Scientific 706001 Polystyrene Cell Culture Dish, showing the dish and its lid.

2. SETUP AND PREPARATION

These cell culture dishes are provided sterile and ready for immediate use. No prior sterilization or cleaning is required.

1. **Unpacking:** Carefully open the sterile packaging in a laminar flow hood or aseptic environment to maintain sterility.
2. **Inspection:** Visually inspect each dish for any signs of damage or contamination before use. Do not use if sterility is compromised.
3. **Placement:** Place the dishes on a stable, level surface within the sterile working area.

3. OPERATING INSTRUCTIONS

Follow standard aseptic techniques when handling cell culture dishes to prevent contamination.

1. **Media Addition:** Gently add the desired cell culture medium to the dish. Avoid splashing to prevent aerosol formation and contamination.
2. **Cell Seeding:** Introduce the cell suspension into the dish. Ensure even distribution of cells across the growth surface.
3. **Incubation:** Place the lidded dish into a CO₂ incubator at the appropriate temperature and humidity for your cell line. The stackable design allows for efficient use of incubator space.
4. **Observation:** Use a microscope to observe cell growth and morphology. The flat, transparent surface and numeric indicators facilitate precise observation and tracking of specific areas.
5. **Media Changes:** Perform media changes as required by your cell culture protocol, always maintaining aseptic conditions.



Figure 2: A pair of Nest Scientific 706001 Polystyrene Cell Culture Dishes, illustrating their clear construction.

4. MAINTENANCE AND DISPOSAL

These cell culture dishes are designed for single-use applications. They are not intended for reuse or resterilization.

- **Storage:** Store unopened packs in a clean, dry environment at room temperature, away from direct sunlight and extreme temperatures.
- **Handling:** Handle dishes carefully to avoid scratches or damage to the growth surface.
- **Disposal:** Dispose of used cell culture dishes and their contents according to institutional guidelines for biohazardous waste. Autoclaving prior to disposal is often recommended for biological waste.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Poor cell attachment	Incorrect cell type for TC-treated surface, or dish surface compromised.	Ensure cells are compatible with TC-treated polystyrene. Verify dish integrity before use.
Contamination (bacterial/fungal)	Breach in aseptic technique, contaminated media, or incubator.	Review and reinforce aseptic procedures. Check media sterility. Clean and sterilize incubator.

Problem	Possible Cause	Solution
Dish appears cloudy or scratched	Physical damage during handling or storage.	Do not use damaged dishes. Ensure proper storage and careful handling.

6. SPECIFICATIONS

- **Model Number:** 706001
- **Material:** Polystyrene
- **Treatment:** Tissue Culture Treated (Vacuum Plasma TC treatment)
- **Sterilization:** E-Beam
- **Diameter:** 35 mm (as per product title)
- **Features:** Flat transparent surface, numeric indicators, stackable, non-pyrogenic.
- **Package Dimensions:** 10.91 x 8.5 x 8.39 inches (for a case of 500)
- **Manufacturer:** Nest Biotechnology

7. WARRANTY AND SUPPORT

For product inquiries, technical support, or to report any issues, please contact Nest Scientific customer service. Specific warranty information may be available on the manufacturer's official website or through your distributor.

Please refer to the original product packaging or the Nest Scientific website for the most current contact information and warranty details.