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MotorPlate™ - 96-well Plate Containing Human Motor Neuron Progenitors

Instructions for Use

Introduction

The MotorPlate™ contains functional Motor Neuron Progenitors (MNPs) derived from human Embryonic Stem Cells (hESCs) seeded onto a fully defined substrate and grown in MotorBlast™ Medium.

Safety

THIS PRODUCT IS FOR RESEARCH AND *IN VITRO* USE ONLY. This product is not approved for human or veterinary use, for applications to humans or animals, or for use in clinical or *in vivo* procedures.

WARNING: PRODUCTS CONTAIN HUMAN SOURCE MATERIAL; TREAT AS POTENTIALLY INFECTIOUS. All human sourced products should be handled at the Biological Safety Level 2 to minimize exposure of potentially infectious products, as recommended in the CDC-NIH Manual, Biosafety in Microbiological and Biomedical Laboratories, 5th ed. If you require further information, please contact your site Safety Officer or Scientific Support.

Receipt and Storage Instructions

Open immediately and store at 37°C in 5% CO_2

1. Check all containers for leakage or breakage.
2. MotorPlate™ is shipped at room temperature in a 96-well sealed sterile plate.
3. Open the vacuum sealed packaging and remove MotorPlate™ from packaging.
4. Replace the sealing cover with the included sterile standard 96-well plate cover using aseptic technique. Content of unopened plate is sterile**.**
5. Examine plate and confirm integrity.
6. Place plate into 37°C, 5% CO_2 incubator.
7. The plate must be incubated for at least 2 hours before use.

Maintenance (optional)

1. Warm required amount of MotorBlast™ Medium to 37ºC (~15 ml per plate).
2. Aspirate 150 µl of medium from each well, being careful not to aspirate the cells attached to the bottom of the wells.
3. Add 150 µl of pre-warmed medium to each well, and return MotorPlate™ to incubator.
4. Every other day as needed, aspirate 150 µl of spent medium and add 150 µl pre-warmed medium to each well.

Product Warranty:

CELLS HAVE A FINITE LIFESPAN IN PLATE FORMAT! Lonza warrants its cells for six days from date of shipment, only if recommended medium and reagents are used.

Quality Control:

MNPs are derived from karyotypically normal, mycoplasma-, bacteria- and infectious agent-free hESCs. Cells in MotorPlate™ are visually inspected for morphology, adherence, and density. Motor Neuron Progenitors are characterized using immunocytochemical staining. "Standard" MotorPlate™ contains at least 75% TUJ1-positive (Neuronal Class III β-Tubulin) and 15% or less GFAP-positive (Glial Fibrillary Acid Protein) cells (see Figure 1). "Mature" MotorPlate™ also contains at least 30% SMI32-positive (Neurofilament) cells (see Figure 2). For detailed information concerning QC testing, please refer to the Certificate of Analysis.

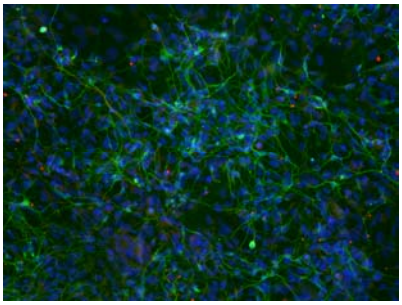

Figure 1. "Standard" MotorPlate™ Cells: TUJI = green, GFAP = red, DAPI = blue

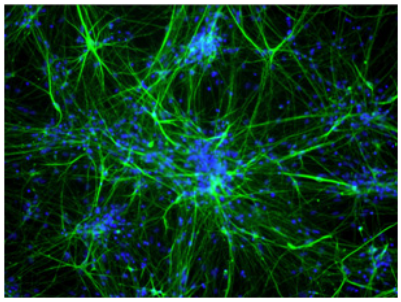

Figure 2. "Mature" MotorPlate™ Cells: SMI32 = green, DAPI = blue

Ordering Information

Cells

FP-6011	Standard MotorPlate™ 96	96-well plate + 100 ml bottle of medium
FP-6046	Mature MotorPlate™ 96	96-well plate + 100 ml bottle of medium