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NeuroRat™ Medium Kit

Cat. No. TM208

Product Description

NeuroRat™ Medium Kit is a serum-free, chemically defined medium system optimized for the maintenance of iPSC-derived neural cultures. It supports neuronal viability, promotes phenotypic stability, and helps preserve functional characteristics during extended culture. The defined formulation reduces batch-to-batch variability and enables reproducible performance across applications including disease modeling, neurotoxicity testing, and neural pathway research.

Key benefits include:

- **Maintains neuronal viability and stability** – supports long-term preservation of neuronal phenotype and function.
- **Defined serum-free formulation** – reduces variability and improves experimental reproducibility.
- **Streamlined workflow** – ready-to-use system for consistent maintenance of iPSC-derived neural cultures.

Components

Product	Part No.	Storage Condition
Basal Medium 4	BM004-125	2–8°C
NeuroRat™ Supplement 1	TM208-1	–20°C
L-Alanyl-L-Glutamine Supplement (200 mM)	SM003-1.25	2–8°C
B27 Supplement (50X)	SM002-2.5	–20°C

Storage and Stability

- Once supplemented, complete medium may be stored at 2–8°C and should be used within 30 days.
- Avoid freezing the complete medium and avoid repeated freeze-thaw cycles of supplements.

Protocol

1. Thaw each supplement at room temperature (15–25°C) or overnight at 2–8°C.
2. Aseptically, in a biosafety cabinet, remove 3 ml of basal medium from the bottle and discard.
3. Add the specified volume of each supplement, as shown in the table below, to the bottle of basal medium and mix thoroughly.
 - a. Briefly spin down NeuroRat™ Supplement 1 before opening to ensure complete recovery of the low-volume contents.
4. Mix gently until homogeneous. Supplement addition may cause slight temporary cloudiness.

Note: The final reconstituted medium volume is 125 ml.

Product	Part no.	Quantity
NeuroRat™ Supplement 1	TM208-1	25 µl
L-Alanyl-L-Glutamine Supplement (200 mM)	SM003-1.25	1.25 ml
B27 Supplement (50X)	SM002-2.5	2.5 ml

For research use only. Not intended for therapeutic or diagnostic use.