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User Manual

OriCell™ Neural Stem Cell Growth Medium

Cat. No. GUXNX-90011

PRODUCT DESCRIPTION:

OriCell™ Neural Stem Cell Growth Medium consists of optimized Neural Stem Cell Basal Medium and pre-selected supplements. This product has been developed for the optimal expansion and maintenance of neural stem cells. These cells can be expanded through multiple passages while maintaining their multipotency.

The product is intended for laboratory research use only. It is not intended for diagnostic, therapeutic, clinical, household, or any other applications.

KIT COMPONENTS:

Neural Stem Cell Basal Medium (Cat. No. GUXNX-03011)	96 mL
B27	2 mL
Penicillin-Streptomycin	1 mL
Glutamine	1 mL
bFGF	20 µL
EGF	10 µL
Heparin	100 µL

INSTRUCTIONS:

Preparation of the Complete Medium

1. About 30 minutes prior to use, thaw the B27, Penicillin-Streptomycin solution, and Glutamine solution at room temperature. Invert the vials several times to ensure homogeneity.

***Note*: Centrifuge the vials briefly at low speed before removing the caps to ensure recovery of the entire content.**

2. About 10 minutes prior to use, thaw bFGF, EGF, and Heparin at room temperature.

***Note*: Centrifuge the vials briefly at low speed before removing the caps to ensure recovery of the entire content.**

3. Disinfect the external surfaces of the bottles/vials for every component in the kit with 70% v/v ethanol. Allow ethanol to evaporate.
4. Aseptically open the bottles/vials inside a laminar flow hood.
5. Transfer the entire amount of B27, Penicillin-Streptomycin solution, and Glutamine solution into the Neural Stem Cell Basal Medium.
6. Rinse each vial with a small amount of the basal medium. Subsequently transfer the rinse back into the bottle of basal medium.

7. To transfer the entire amount of bFGF, EGF and Heparin, add 0.5 mL of medium to the vials, mix by pipetting, and then transfer the entire mixture back into the bottle of basal medium.
8. Repeat step 7 several times.
9. Gently swirl the fully supplemented (complete) medium to ensure a homogeneous mixture. The complete medium is now ready to use.

***Note*: Although each component in this kit is supplied sterile, it is strongly recommended to filter the fully supplemented (complete) medium.**

STABILITY AND STORAGE:

All products should be stored in the dark. Neural Stem Cell Basal Medium is stable at 2-8°C for up to one year. Other components are stable at -20°C for up to two years.

These products should be discarded beyond the labeled expiration date. Once prepared, the fully supplemented (complete) medium can be stored for up to one month when stored in the dark at 2-8°C.

For optimal performance, repeated warm-cooling and freeze-thawing should be avoided.

QUALITY CONTROL:

OriCell™ Neural Stem Cell Growth Medium has been tested for performance on neural stem cells. The standard evaluation includes:

- Sterility test (bacteria, fungi, and mycoplasma)
- pH test
- Osmolality
- Endotoxin

RELATED PRODUCTS:

Product	Catalog Number
OriCell™ SD Rat Neural Stem Cells	RASNF-01001
OriCell™ Strain C57BL/6 Mouse Neural Stem Cells	MUBNF-01001