

## **NCS21 (B27) Supplement**

### *Cell Culture Reagents-Growth Supplements*

**Catalog Number:** CC113

**Description:** NCS21 (equivalent to B27) additive is a serum-free additive commonly used to improve cell culture conditions, especially the growth and maintenance of neuronal cells, stem cells and other sensitive cell types. It provides a defined mixture of essential nutrients, antioxidants, fatty acids, vitamins, and growth factors needed to optimize cell survival and differentiation. NCS21 can be used in a wide range of 2D and 3D culture systems to promote cell viability in chemically defined environments while minimizing cellular stress. It is formulated to maintain cell function and integrity in vitro to support a wide range of applications including neurobiology research, stem cell therapy development and drug screening. Our NCS21 cell growth supplement has been shown to enhance long-term survival and growth of hippocampal and other central nervous system (CNS) and peripheral nervous system (PNS) neurons. NCS21 also contains specific growth factors used for neuronal stem cell differentiation and neuronal lineage differentiation in mouse embryonic stem cells.

**Product Highlights:**

- Serum-free medium additive
- Maintain long-term viability and growth of neurons
- Replacement of feeder cells
- Growth of hippocampal neurons and a variety of CNS neurons
- Growth factors for differentiation of neuronal stem cells
- Optimized composition for differentiation of murine embryonic stem cells into neuronal lineages

**Synonyms:** B27, Neurobasal medium substitute, NeuroMix

**Formulation:** 50X, ready-to-Use solution.

**Physical Appearance:** Sterile filtered colorless or light yellow transparent liquid.

**Endotoxin:** tested

**Pack Size:** 10mL

**Storage & Stability:** Should be stored at -20°C. Please avoid freeze-thaw cycles.

**Suitability:** Cell culture tested.

**References:**

1. Brewer, G.J.; Torricelli, J.R.; Evege, E.K.; Price, P.J. Optimized survival of hippocampal neurons in B27-supplemented Neurobasal, a new serum-free medium combination. *Neurosci Res.* 1993 Aug 1;35(5):567-76.

**FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES**

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