

N2 Supplement

Cell Culture Reagents-Growth Supplements

Catalog Number: CC115

Description: Our advanced N2 supplement is a serum-free, chemically defined, and concentrated media supplement specifically formulated to ensure optimal growth conditions for neural stem cell expansion. This high-quality supplement comprises key components such as recombinant human Insulin, human transferrin, putrescine, selenite, and progesterone, each playing a crucial role in the proliferation and differentiation of neural cells.

Recombinant human Insulin acts as an essential nutrient and growth factor, promoting cell metabolism and growth. Human transferrin facilitates iron transport, which is vital for cellular respiration and enzyme activities within neural stem cells. Putrescine, a polyamine, is involved in cell growth and differentiation, while selenite provides necessary selenium, supporting antioxidant defenses and cellular protection. Progesterone further aids in the maturation and stability of neural cells within culture environments.

Our N2 supplement offers a fully defined formulation that minimizes undesired experimental variability, providing researchers with consistent and reliable results. It has been meticulously developed and optimized in conjunction with neural progenitor cells, making it an ideal choice for studies involving neurogenesis and neural tissue engineering. Whether you're conducting fundamental research or developing therapeutic strategies, our N2 supplement ensures your neural cultures achieve maximum viability and growth potential.

Formulation: 100X, Ready-to-Use aqueous solution.

Components:

Recombinant human insulin:	2,500 mg/L
Human transferrin (iron-saturated):	10,000 mg/L
Putrescine:	1,611 mg/L
Selenite:	0.52 mg/L
Progesterone:	0.63 mg/mL

Application: For culturing neurons, neural progenitors, and stem cells.

Physical Appearance: Sterile filtered clear brown solution.

Endotoxin: tested

Pack Size: 5mL

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

Suitability: Cell culture tested.

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

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