

Product Information

N2 Supplement (100x), Serum-free
Cat. No. N2-K (5 ml)

General Information

N2 Supplement is a serum-free, chemically defined supplement based on Bottenstein's N2 formulation. It is recommended for the growth and expression of neuroblastomas and for the survival and expression of post-mitotic neurons in primary cultures from both the peripheral nervous system (PNS) and the central nervous system (CNS).

Applications:

N2 Supplement can be used in combination with NCS21 Supplement for:

- Differentiation of ES cells into neuron lineage (neurons and astrocytes)
- Differentiation of neuronal stem cells into astrocytes and neurons
- Optimal serum free growth for neuroblastomas

Product Specifications

Appearance	Clear orange liquid
Storage	Store at $\leq -15^{\circ}\text{C}$, protected from light.
Shipping conditions	Frozen (dry ice)

Formulation

Component	$\mu\text{g/ml}$
Human Transferrin (Holo)	10000.00
Human Insulin, recombinant	500.00
Progesterone	0.63
Putrescine	1611.00
Sodium Selenite	0.52

Reference: Bottenstein, J.E. (1985) Cell Culture in the Neurosciences, Bottenstein, J.E. and Harvey, A.L., editors, p. 3, Plenum Press: New York and London.

Instructions for Use

N2 Supplement is provided as a 100 fold concentrate. Dilute N2 Supplement into the base medium 1 : 100. The final concentration of N2 Supplement corresponds to 1x. For preparation of 100 ml medium add 1 ml N2 Supplement into 99 ml of the appropriate base medium.

Cell culture vessels must be coated with Poly-D-Lysine (0.05 mg/ml). Fibronectin must be added at a final concentration of 5 to 10 $\mu\text{g/ml}$ directly to the medium.

For serum free growth of neuroblastomas add N2 Supplement (100x) into base medium (supplemented with 0.5 mM L-Glutamine and 25 μM Glutamate) to a final concentration of 1x.

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Related Products

Product	Cat. No.
NCS21 Supplement (50x), Serum-free	C21-H
NCS21 Supplement (50x), w/o Vitamin A, Serum-free	CS21-XV-H

Precautions and Disclaimer

This product is for research use and further manufacturing only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Help Needed?

If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email (techservice@capricorn-scientific.com) or phone (+49 6424 944640).