

Product Information

N2 Supplement (100x), Serum-free

Cat. No.: K0005-630 Volume: 5 ml

Product Description

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

Product Specifications

Sterility	Tested
Storage	≤-15°C

Formulation

Component	µg/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.

Protocol 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 µg/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	K0010-640

Precautions and Disclaimer

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