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Gibco™

# N-2 Supplement (100X)

N-2 Supplement is a chemically-defined, serum-free supplement based on Bottenstein's N-1 formulation. It is recommended for growth and expression [Read more](#)

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Catalog Number	Quantity
17502048	5 mL
17502001	50 mL

2 Options

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**86,64**

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5 mL

**Product Overview**

Recommendations

Documents

FAQ

Citations & References

N-2 Supplement is a chemically-defined, serum-free supplement based on Bottenstein's N-1 formulation. It is recommended for growth and expression of neuroblastomas as well as post-mitotic neurons in primary cultures from both the peripheral nervous system and the central nervous system. N-2 Supplement is provided as a 100X concentrate and is intended for use with [Neurobasal Medium](#) supplemented with growth factors such as bFGF and EGF. It may also be used with DMEM.

For established protocols using N-2 Supplement, access our [Gibco Neurobiology Protocol Handbook](#).

View publications using Gibco neurobiology products at our [Gibco CellCite](#).

For Research Use Only. Not for use in diagnostic procedures.

## Specifications

<b>Cell Type</b>	Neural Cells
<b>Classification</b>	Serum-free
<b>Concentration</b>	100 X
<b>Culture Type</b>	Mammalian Cell Culture
<b>Form</b>	Liquid

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<b>Shelf Life</b>	18 Months
<b>Sterility</b>	Sterile
<b>pH</b>	6 to 8
<b>Quantity</b>	5 mL
<b>Shipping Condition</b>	Dry Ice
<b>Tested For</b>	Endotoxin, Performance, Sterility
<b>Unit Size</b>	Each

### Contents & Storage

Store in freezer (-5 to -20°C) and protect from light.

### Media Formulations

[N-2 Supplement \(100X\) liquid](#)

## Customers who viewed this item also viewed

**B-27™ Supplement (50X), serum free, 10 mL**  
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<a href="#">2610193</a>	Certificate of Analysis	Jan 29, 2025	17502001, 17502048
<a href="#">2584679</a>	Certificate of Analysis	Jan 29, 2025	17502001, 17502048

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## Safety Data Sheets



## Scientific Resources

Application Notes



[Application Note: CellInsight CX7 LZR High-Content Analysis Platform](#)

Posters



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## Product information

Manuals



 [Product Sheet: GIBCO Human Astrocytes and GIBCO Astrocyte Medium](#)

## Frequently asked questions (FAQs)

- Can I filter the N-2 Supplement? ▼
- Which supplement can I add to Neurobasal Medium to culture my neural cells? ▼
- What is the recommended storage condition and shelf life for N-2 Supplement (100X) (Cat. No. 17502001 or 17502048)? ▼
- Is there a difference between the Gibco N-2 Supplement formulation from Thermo Fisher and the N-2 Supplement formulation from Global Stem? ▼
- What supplements should I use with Neurobasal or Neurobasal-A medium? ▼

## Citations & References (4)

Search

### Citations & References

[In vitro generation of human pluripotent stem cell derived lung organoids.](#) 

**Authors:** Dye BR, Hill DR, Ferguson MA, Tsai YH, Nagy MS, Dyal R, Wells JM, Mayhew CN, Nattiv R, Klein OD, White ES, Deutsch GH, Spence JR

**Journal:**

ed ID: 25803487

### Abstract

'Recent breakthroughs in 3-dimensional (3D) organoid cultures for many organ systems have led to new physiologically complex in vitro models to study human development and disease. Here, we report the step-wise differentiation of human pluripotent stem cells (hPSCs) (embryonic and induced) into lung organoids. By manipulating developmental signaling pathways hPSCs ... [More](#)

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Vallance JE, Tolle K, Hoskins EE, Kalinichenko VV, Wells SI, Zorn AM, Shroyer NF, Wells JM

**Journal:** Nature

**PubMed ID:** 21151107

types in vitro. For example, human PSCs have been differentiated into monolayer cultures of liver hepatocytes and pancreatic endocrine cells that have therapeutic efficacy in ... [More](#)

[Recapitulation of SARS-CoV-2 infection and cholangiocyte damage with human liver ductal organoids.](#) [↗](#)

**Authors:** Zhao B, Ni C, Gao R, Wang Y, Yang L, Wei J, Lv T, Liang J, Zhang Q, Xu W, Xie Y, Wang X, Yuan Z, Liang J, Zhang R, Lin X

**Journal:** Protein Cell

**PubMed ID:** 32303993

[Viral Delivery of GDNF Promotes Functional Integration of Human Stem Cell Grafts in Parkinson's Disease.](#) [↗](#)

**Authors:** Gantner CW, de Luzy IR, Kauhausen JA, Moriarty N, Niclis JC, Bye CR, Penna V, Hunt CPJ, Ermine CM, Pouton CW, Kirik D, Thompson LH, Parish CL

**Journal:** Cell Stem Cell

**PubMed ID:** 32059808

Dopaminergic neurons (DANs), generated from human pluripotent stem cells (hPSCs), are capable of functionally integrating following transplantation and have recently advanced to clinical trials for Parkinson's disease (PD). However, pre-clinical studies have highlighted the low proportion of DANs within hPSC-derived grafts and their inferior plasticity compared to fetal tissue. Here, ... [More](#)

4 total citations

## Other products to consider

**B-27™ Plus Supplement  
(50X)**

Catalog number: A3582801

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