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Gibco™

B-27™ Supplement (50X), serum free

The most cited neuronal cell culture supplement, B-27 Supplement is an optimized serum-free supplement used to support the low- [Read more](#)

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17504001	100 mL

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The most cited neuronal cell culture supplement, B-27 Supplement is an optimized serum-free supplement used to support the low- or high-density growth and short- or long-term viability of embryonic, post-natal, and adult hippocampal and other CNS neurons. B-27 Supplement is provided as a 50X liquid and is intended for use with Neurobasal Medium or Neurobasal-A Medium for neuronal cell culture without the need for an astrocyte feeder layer.

B-27 Supplement is suitable for use in most neuronal cell applications. For other applications, we provide alternative formulations of [B-27 Supplement](#) and [Neurobasal media](#).

For established protocols using B-27 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

Cell Type	Neural Cells
Classification	Serum-free
Concentration	50 X
Culture Type	Mammalian Cell Culture
Form	Liquid
Product Type	Cell Culture Supplement
Serum Level	Serum-Free
Shelf Life	12 Months
Sterility	Sterile
pH	6 to 8
Product Line	B-27™
Quantity	10 mL

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Tested For	Endotoxin, Performance, Sterility, Mycoplasma
Unit Size	Each

Contents & Storage

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

Media Formulations

[B-27 Serum-Free Supplement \(50X\) liquid](#)

Figures

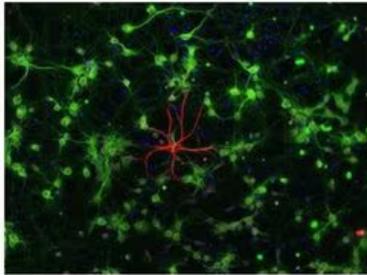
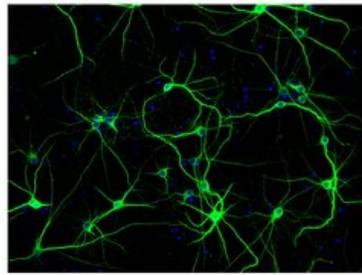
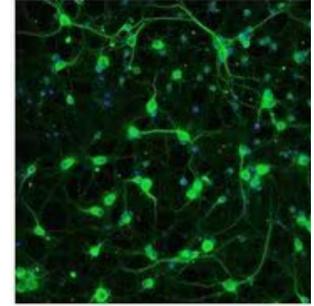


Figure 2. Primary rat Hippocampus neurons cultured in B-27 Supplement—Rat hippocampal neurons cultured in Neurobasal medium

Primary rat Hippocampus neurons cultured in B-27 Supplement



Rat cortical neurons cultured in Neurobasal Medium with B-27



Primary rat cortex neurons cultured in B-27 Supplement

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 2596494	Certificate of Analysis	Jan 31, 2025	17504044, 17504001
 3011379	Certificate of Analysis	Jan 31, 2025	17504044, 17504001
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[User Guide: B-27 Supplement \(50X\)](#)

Frequently asked questions (FAQs)

Can Neurobasal Medium alone or Neurobasal Medium supplemented with B-27 supplement be frozen to extend product shelf life?

Which supplement can I add to Neurobasal Medium to culture my neural cells?

What B-27 supplements do you offer?

How do I thaw B-27 Supplements?

Can I thaw B-27 Supplements in a 37 degrees C water bath or incubator?

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Citations & References (6)

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Citations & References

Abstract

[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

al:

PuMed ID: 25803487

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

Journal: Nature

PubMed ID: 21151107

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

[Axonal Transport Enables Neuron-to-Neuron Propagation of Human Coronavirus OC43.](#)

Authors: Dubé M, Le Coupanec A, Wong AHM, Rini JM, Desforges M, Talbot PJ

Journal: J Virol

PubMed ID: 29925652

Human coronaviruses (HCoVs) are recognized respiratory pathogens for which accumulating evidence indicates that in vulnerable patients the infection can cause more severe pathologies. HCoVs are not always confined to the upper respiratory tract and can invade the central nervous system (CNS) under still unclear circumstances. HCoV-induced neuropathologies in humans are ... [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

[Infection of bat and human intestinal organoids by SARS-CoV-2.](#)

Authors: Zhou J, Li C, Liu X, Chiu MC, Zhao X, Wang D, Wei Y, Lee A, Zhang AJ, Chu H, Cai JP, Yip CC, Chan IH, Wong KK, Tsang OT, Chan KH, Chan JF, To KK, Chen H, Yuen KY

Journal: Nat Med

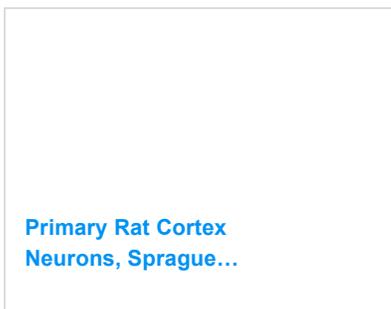
PubMed ID: 32405028

A novel coronavirus-severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)-emerged in humans in Wuhan, China, in December 2019 and has since disseminated globally

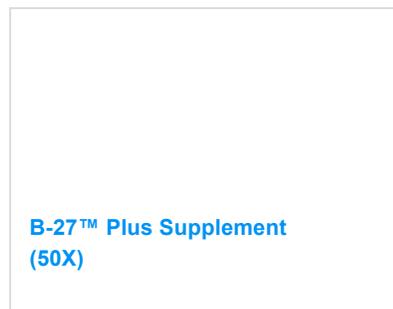
6 total citations

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B-27™ Plus Supplement (50X)

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