

## N-2 Supplement (100×)

### Introduction

N-2 Supplement (100×) is a serum-free, chemically defined additive designed for the culture of neural cell lines. Its main components include human transferrin, bovine insulin, progesterone, putrescine, and sodium selenite. N-2 Supplement (100×) supports the growth and expression of neuroblastoma, peripheral nervous system (PNS)-derived, and central nervous system (CNS)-derived post-mitotic neurons. It is commonly used for culturing neural cell lines, as well as for the maintenance and differentiation of pluripotent stem cells. This product is compatible with a wide range of cell culture media, especially serum-free media or DMEM/F12 supplemented with growth factors such as bFGF and EGF.

The supplement is supplied as a sterile-filtered, ready-to-use solution in cell-culture-grade water.

### Storage

Store at -20°C protected from light, stable for 2 years.

### Protocol

1. After thawing N-2 Supplement (100×), add it to culture medium (e.g., DMEM/F12, Neurobasal) at a 1:100 dilution. Additional components such as L-Ala-Gln (Cat. No. B8228), L-glutamine (Cat. No. A8461), or penicillin-streptomycin solution may be included according to experimental needs. Once prepared, the medium can be used for neural cell culture. The optimal concentration of N-2 Supplement may be further optimized for specific cell types. Prepared medium containing N-2 Supplement (100×) can be stored at 4°C for up to 2 weeks.

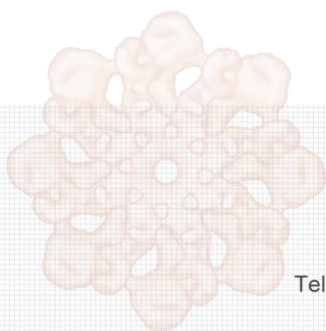
**\*Note:** Upon receipt, aliquot the product and store at -20°C protected from light to avoid repeated freeze-thaw cycles. For frequent short-term use, store at 4°C in the dark and use within 1-2 weeks.

2. N-2 Supplement (100×) can be combined with B-27 Supplement in serum-free culture systems for the directed differentiation of pluripotent stem cells.

### Note

1. This product is supplied as a sterile solution. All handling should be performed under aseptic conditions (e.g., in a laminar flow hood) to prevent contamination.

2. The solution appears light pink. Thaw completely, then warm gently in a 37 °C water bath if needed to ensure homogeneity.
3. Protect from light as much as possible to maintain stability.
4. For your safety and health, please wear lab coats and gloves during the experiment.
5. For research use only. Not to be used in clinical diagnostic or clinical trials.



**APEx BIO Technology**  
**[www.apexbt.com](http://www.apexbt.com)**

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)