

N-2 Plus Media Supplement

Catalog Number: AR003

Size: 5 mL

Specifications and Use

Description

♦ N-2 Plus Media Supplement is a modification of Bottenstein's formulation, which provides optimal conditions for neural stem cell expansion. It can be used as a substitute for the N-2 formulation and was optimized for neuronal cell cultures. The supplement is supplied as a 100X concentrate in deionized water.

Storage

 Store in the dark at ≤ -20° C in a manual defrost freezer. Do not use beyond the expiration date.

Components

•	Bovine Insulin	2500 μg/mL
•	Human Transferrin	10,000 μg/mL
•	Putrescine	1611 μg/mL
•	Selenite	0.52 μg/mL
•	Progesterone	0.63 μg/mL

Precautions

◆ This product contains human transferrin. This transferrin was tested at the donor level using an FDA licensed method and found to be non-reactive for anti-HIV-1/2 and Hepatitis B surface antigen. As no testing can offer complete assurance of freedom from infectious agents, these reagents should be handled as if capable of transmitting infection.

N-2 Plus Medium Preparation

Option 1: Mix the following components with deionized or distilled water to make 500 mL of medium. Adjust the pH to 7.2. Filter the solution (2 μm filter unit), and add 5 mL of 100X sterile Penicillin-Streptomycin solution (Invitrogen®, Catalog # 15140-148). The medium may be stored in the **dark** at 2 - 8° C for up to 2 weeks.

<u>Amount</u>
6 g
0.775 g
0.0365 g
0.845 g
5 mL

Option 2: Dilute 100-fold with a basal media (*e.g.* Neurobasal Media from Invitrogen, Catalog # 21103-029) before use. The medium may be stored in the **dark** at 2 - 8° C for up to 2 weeks.

References

- 1. Bottenstein, J.E. (1985) *Cell Culture in the Neurosciences*, Plenum Press: New York and London.
- 2. Johe, K.K. et al. (1996) Genes & Development 10:3129.

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