

N-2 Plus Media Supplement

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Description

N-2 Plus Media Supplement is a modification of Bottenstein's formulation,¹ which provides optimal conditions for neural stem cell expansion.² 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.

Basic information

Product Name	N-2 Plus Media Supplement
Article Number	FK-K0204019
Specification	5mL
Storage	Store in the dark at $\leq -20^{\circ}\text{C}$ in a manual defrost freezer. Do not use beyond the expiration date.

Components

Bovine Insulin	2500 $\mu\text{g/mL}$
Human Transferrin	10,000 $\mu\text{g/mL}$
Putrescine	1611 $\mu\text{g/mL}$
Selenite	0.52 $\mu\text{g/mL}$
Progesterone	0.63 $\mu\text{g/mL}$

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. The medium may be stored in the **dark** at 2 - 8 $^{\circ}\text{C}$ for up to 2 weeks.

Component	Amount
DMEM/F-12	6 g
Glucose	0.775 g
Glutamine	0.0365 g

NaHCO ₃	0.845 g
N-2 Plus Media Supplement (100X)	5 mL

Option 2: Dilute 100-fold with a basal media before use. The medium may be stored in the **dark** at 2 - 8° C for up to 2 weeks.