

PRODUCT DESCRIPTION

N-2 MAX 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 neural cell cultures. The supplement is supplied as a 100X concentrate in deionized water.

MEDIA SUPPLEMENT COMPONENTS

Store in the dark at $\leq -20\text{ }^{\circ}\text{C}$ in a manual defrost freezer. Do not use past the expiration date.

COMPONENT	AMOUNT ($\mu\text{g/mL}$)
Recombinant Human Insulin	2500
Human Transferrin	10,000
Putrescine	1611
Selenite	0.52
Progesterone	0.63

PRECAUTION

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 MAX MEDIA PREPARATION

Option 1: Mix the following components with deionized or distilled water to make 500 mL of media. Adjust the pH to 7.2. Filter the solution (2 μm filter unit), and add 5 mL of 100X sterile Penicillin-Streptomycin solution. The media may be stored **in the dark** at 2-8 $^{\circ}\text{C}$ for up to 2 weeks.

COMPONENT	AMOUNT
DMEM/F-12 (Invitrogen, Catalog # 12500-062)	6 g
Glucose (Sigma, Catalog # G6152)	0.775 g
Glutamine (Sigma, Catalog # G8540)	0.0365 g
NaHCO_3 (Sigma, Catalog # S5761)	0.845 g
N-2 MAX Media Supplement (100X)	5 mL

Option 2: Dilute 100-fold with a basal media (e.g., Neurobasal Media from Life Technologies, Catalog # 21103-049) before use. The media may be stored **in the dark** at 2-8 $^{\circ}\text{C}$ 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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