N21-MAX Insulin Free Media Supplement (50X)

Catalog Number: AR010
Volume: 10 mL

INTENDED USE

N21-MAX Insulin Free Media Supplement is a serum-free media supplement specially optimized for the long-term culture of neurons. N21-MAX Insulin Free Media Supplement is tested in the viability and growth of E18 rat hippocampal neurons.

PRODUCT DESCRIPTION

N21-MAX Insulin Free Media Supplement is supplied as a 50X concentrated solution. This supplement contains the following 20 components for long-term neuronal cell culture:

- Albumin (bovine)
- L-Carnitine
- Catalase
- Corticosterone
- Ethanolamine
- Glutathione
- Galactose
- Holo-Transferrin
- Linoleic Acid
- Linolenic Acid
- Lipoic Acid
- Progesterone
- Putrescine
- Retinyl acetate
- Retinol
- Selenite
- Superoxide dismutase
- Triiodo-L-thyronine
- D,L-alpha-Tocopherol
- D,L-alpha-Tocopherol acetate

OTHER SUPPLIES REQUIRED

- Basal media (Invitrogen, Catalog # 21103049)

STABILITY & STORAGE

Upon receipt, this media should be stored at ≤ -20 °C in a manual defrost freezer. Diluted media can be stored at 2-8 °C for up to two weeks **in the dark.**

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, this product should be handled as if capable of transmitting infection.

MEDIA PREPARATION

Dilute 50-fold with basal media and supplement with 0.5 mM L-Glutamine before use.

DATA EXAMPLE

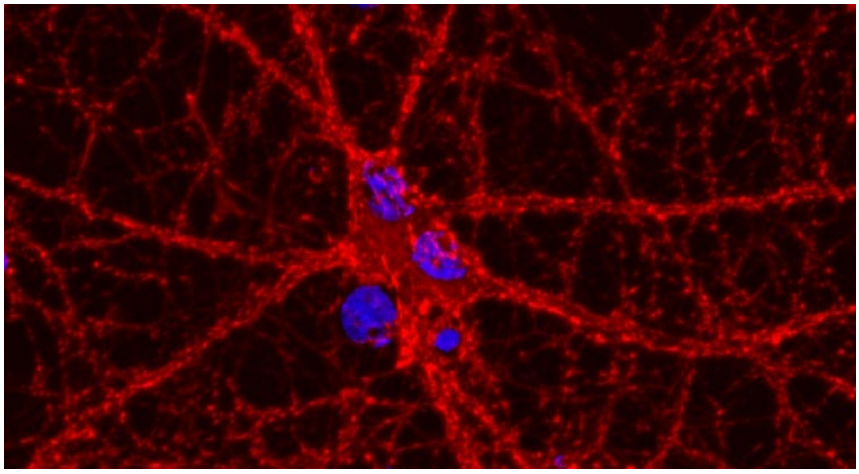

Figure 1: E18 rat hippocampal neurons were grown for 21 days *in vitro* in media supplemented with N21-MAX Insulin Free Media Supplement. The cells were stained with the Mouse Anti-Rat Synaptotagmin-1 Monoclonal Antibody (R&D Systems, Catalog # MAB4364), followed by the NorthernLights™ (NL)557-conjugated Donkey Anti-Mouse IgG Secondary Antibody (red; R&D Systems, Catalog # NL007) and the nuclei were counterstained with DAPI.