

DESCRIPTION

N21-MAX Vitamin A Free Media Supplement is a serum-free media supplement designed to maintain undifferentiated neural stem/progenitor cells in culture in the absence of retinoids, derivatives of Vitamin A, which induce differentiation (1, 2).

MEDIA SUPPLEMENT COMPONENTS

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

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

PRECAUTION

This product contains human transferrin from human source material. This human source material 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.

MEDIA PREPARATION

Dilute 50-fold with basal media and supplement with 0.5 mM L-glutamine before use. Store the media in the dark at 2-8 °C for up to two weeks.

DATA EXAMPLE

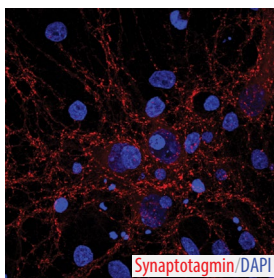


Figure 1: E18 rat hippocampal neurons grown for 21 days *in vitro* in media supplemented with N21-MAX Vitamin A Free Media Supplement. The cells were stained with mouse anti-rat Synaptotagmin antibody (R&D Systems, Catalog # MAB4364) followed by the NorthernLights™ (NL)557-conjugated Donkey Anti-Mouse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

REFERENCES

1. Orsolits, B. *et al.* (2013) Stem Cells Dev. **22**:2777.
2. Gudas, L.J. and J.A. Wagner (2011) J. Cell Phys. **226**:322.