N2 Supplement-A

For neural and pancreatic differentiation of mouse and human ES and iPS cells

Catalog #07152 5 mL

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Product Description

N2 Supplement-A has been developed as a medium supplement recommended for use in the in vitro differentiation of human or mouse embryonic stem (ES) cells and induced pluripotent stem (iPS) cells to neural and pancreatic-like cell types; it may be suitable for other applications. This product is supplied as a 100X stock solution.

N2 Supplement-A is available for individual sale or as a component of the BrainPhys™ Neuronal Medium N2-A & SM1 Kit (Catalog #05793).

Properties

Storage: Store at -20°C.

Shelf Life: Stable until expiry date (EXP) on label.

Contains:
- Recombinant human insulin
- Human holo-transferrin (iron-saturated)
- Sodium selenite
- Putrescine
- Progesterone

This product contains material derived from human plasma. Donors have been tested and found negative for HIV-1 and -2, hepatitis B, and hepatitis C prior to donation. However, this product should be considered potentially infectious and treated in accordance with universal handling precautions.

Directions for Use

For differentiation of human ES- or iPS-derived neural progenitor cells to neurons, refer to the Product Information Sheet (PIS) for BrainPhys™ (Document #10000000225), available at www.stemcell.com, or contact us to request a copy.

NOTE: Protect N2 Supplement-A from prolonged exposure to light.

Thaw N2 Supplement-A at room temperature (15 - 25°C) for 1 hour. Mix well.

NOTE: Once thawed, use supplement immediately or aliquot and store at -20°C. Do not exceed the expiry date as indicated on the label.

Use this product as directed in the protocol of choice.

References

Lee SH et al. (2000) Efficient generation of midbrain and hindbrain neurons from mouse embryonic stem cells. Nat Biotechnol 18(6):675–9.

Lumelsky N et al. (2001) Differentiation of embryonic stem cells to insulin-secreting structures similar to pancreatic islets. Science 292(5520): 1389–94.