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. May be suitable for other applications. This product is supplied as a 100X stock solution.

N2 Supplement-A may be purchased separately or as a component of the BrainPhys™ Neuronal Medium and 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
- Other ingredients

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.

Handling / 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 #DX20519), 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 S-HH 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.