

Technical data sheet

NC-2 Supplement 100x

AC-AP-0011	5 ml
AC-AP-0012	10 ml
AC-AP-0013	20 ml
AC-AP-0014	50 ml
AC-AP-0015	100 ml

Description:

Our NC-2 supplement was developed specifically to meet the requirements of nerve cells. When used together with NC basal media (AC-AP-0030), it allows long-term maintenance of the normal phenotype and growth of neuronal cells and pure neuronal cell populations without the need for an astrocyte feeder.

Composition:

NC-2 Supplement contains insulin, transferrin, albumin and hormones..

Spezifikation

Form	liquid
Sterility	sterile
Concentration	100 X
Shelf life	18 months
serafree	yes
Storage	-20°C
Cell type	Neuronal stem cells

Preparation of NC-Mix:

NC-2 Supplement is provided as a 100 fold concentrate.

Dilute NC-2 Supplement into the base medium (AC-AP-0030) 1 : 100.

The final concentration of NC-2 Supplement corresponds to 1x.

For preparation of 100 ml medium add 1 ml N2 Supplement into 99 ml of the appropriate base medium.

Cell culture vessels must be coated with Poly-D-Lysine (0.05 mg/ml).

Fibronectin must be added at a final concentration of 5 to 10 µg/ml directly to the medium.

For serum free growth of neuroblastomas add NC-2 Supplement (100x) into base medium (supplemented with 0.5 mM L-Glutamine and 25 µM Glutamate) to a final concentration of 1x.

Use:

- Warm up the desired amount from the mix of NC-Basalmedia and NC-2 Supplement to 37°C.
- Count neuronal cells and plate them on coated culture dishes (e.g. fibronectin, poly-D-lysine) with NC-Mix.
- Incubate the cells in the usual way in CO₂-incubator at 37°C with 5% CO₂.
- Feed cells with fresh NC-Mix every second to third day.
- Split the cells if a confluency of 75% is reached.

Advantages:

NC-2 supplement is a chemically-defined, serum-free supplement for the growth of primary embryonic neurons as well as embryonic neurospheres/CNS progenitor cells when combined with bFGF (AC-RH-0794) and EGF (AC-RH-0634) in NC-Basal Media (AC-AP-0030).