

N-2 Plus Media Supplement

Catalog Number: S15101 Components: • Bovine Insulin (2500 ug/ml)

Human Transferrin (10,000 ug/ml)

Putrescine (1611 ug/ml)

Selenite (0.52 ug/ml)

• Progesterone (0.63 ug/ml)

Description: N-2 Plus Media Supplement is a modification of Bottenstein's formulation¹, which

provides optimal conditions for neural stem cell expansion². It can be used as a substitute for the N-2 formulation and was optimized for neuronal cell cultures. The

supplement is supplied as a 100X concentrate in water.

Storage: Store in the dark at _-20° C in a manual defrost freezer.

N-2 Plus Medium Preparation

Option 1: Mix the following ingredients with water to make 500 ml of medium. Adjust the pH to 7.2. Filter the solution (2 um filter unit) and add 5 mL of 100X sterile Penicillin-Streptomycin solution (GIBCO, Catalog # 15140-148). Store in the **dark** at 2 - 8° C for up to 2 weeks.

Ingredient Amount

DMEM/F-12 (GIBCO, Catalog # 12500-062) 6 g Glucose (Sigma, Catalog # G615) 0.775 g Glutamine (Sigma, Catalog # G5763) 0.0365 g NaHCO3 (Sigma, Catalog # S5761) 0.845 g N-2 Plus Media Supplement (100X) 5 mL

Option 2: Dilute 100-fold with a basal media (e.g. Neurobasal Media from GIBCO, Catalog # 21103-029) before use. Store in the **dark** at 2 - 8° C for up to 2 weeks.

References

- 1. Bottenstein, J.E. 1985, Cell Culture in the Neurosciences, Plenum Press: New York and London.
- 2. Johe, K.K. et al., 1996, Genes & Development 10:3129 3140.

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