Neurobasal medium, powder

Cat. No: PM151223P

Size: 5×1L / 1×10L / 1×50L / 100L / 500L

General Information

Product Form	Powder
D-Glucose Concentration	4500 mg/L 12.92 g/L
HEPES	10.92 mM
L-Glutamine	Negative
$NaHCO_3$	Negative
Phenol red	8.1 mg/L
Sodium pyruvate	0.227 mM
Storage	2-8℃, Shading Light
Shipping	Room temperature
Expiration date	36 months

Background

Neurobasal medium is a basic medium designed for nerve cell culture, suitable for the long-term maintenance and maturation of neonatal and adult brain neurons, and is widely used in the field of neuroscience research.

Neurobasal media is suitable for most neuronal cell applications, particularly the long-term maintenance and maturation of neonatal and adult brain neurons. It can maintain the survival of the homologous community of nerve cells in the long and short term without the addition of a glial cell feeder layer.

Neurobasal Medium is used in conjunction with B-27 neuron Supplement , with vitamin A, 50 × (PB180637), without the need for an additional astrocyte trophoblast layer.

Preparation method

1. The preparation water should be purified water, ultra-pure water or water for injection (WFI), and the water temperature should be controlled between 20-30℃ during the preparation process.
2. Measure 90% of the final volume preparation water to the solution preparation system. Start stirring, and avoid generating bubbles. For example, if 1L is required, add 900 mL of preparation water here. And it's recommended that the power output per unit volume (P/V) of the mixing system is greater than 10 W/m^3.
3. Weigh the appropriate amount of powder according to the concentration of 12.92 g/L accurately, and add it to the container prepared in step 2. Stir for more than 20 minutes dissolve all powder completely.
4. After the solution is clear, add $NaHCO_3$ at a concentration of 2.2 g/L, continue stirring for 5-10 minutes until dissolved, then add ultra pure water to adjust the volume to the 100% of required.
5. If necessary, adjust the pH to 7.20-7.30 with 1 mol/L NaOH solution or 1 mol/L HCl solution. Since filtration

will slightly increase the pH, the pH value here is lower than the target pH value (7.20-7.40).

6. The prepared solution should be sterilized using a 0.2 μm pore size filter membrane under positive pressure (ensure aseptic technique).
7. After filtration, a small amount of liquid culture medium can be taken for quality inspection, and use only after passing the test.
8. The filtered liquid medium should be used immediately or stored in glass bottles, culture medium bottles (PET), or single-use storage bags with an oxygen-barrier coating at 2-8℃ away from light. The liquid medium has a shelf life of 1 year under these conditions.

Notes

1. Please wear a lab coat and use disposable gloves and a mask during operation.
2. To ensure the optimal performance of this product, please strictly adhere to the recommended storage conditions for its preservation.
3. This product is intended for scientific research exclusively or as a raw material in the production process, and must not be applied for clinical diagnosis or treatment.