

MEM Non Essential Amino Acid Solution (100×)

Description

TargetMol's MEM Non-Essential Amino Acids Solution (100x) is a high-quality supplement for cell culture, prepared according to the classic MEM (Minimum Essential Medium) formulation. It provides seven non-essential amino acids required for cell growth, including glycine, alanine, L-asparagine, L-aspartic acid, L-glutamic acid, L-proline, and L-serine. Supplementing your culture medium with this product helps reduce the metabolic burden of endogenous amino acid synthesis, promoting more stable and faster cell growth while improving culture performance and experimental consistency.

This product is supplied as a 100x sterile-filtered concentrate. Simply add it to your basal medium at a 1:100 ratio before use. It is suitable for a wide range of mammalian cell lines, the generation of stable cell lines, transfection experiments, and culture systems with high nutritional demands.

Application

Used to supplement non-essential amino acids in cell culture media, this solution supports the growth, proliferation, and maintenance of various mammalian cells. It is particularly effective in enhancing the stability and stress resistance of adherent cells.

Instructions

1. **Preparation Before Use:** Make sure the product is completely thawed and thoroughly mixed. Operate under sterile conditions to avoid contamination.
2. **Addition Ratio:** Add the product to the culture medium at a 1:100 ratio. For example, add 1 mL of this product to 100 mL of complete medium and mix gently to ensure even dispersion.
3. **Applications:** Suitable for use with common basal media such as MEM, DMEM, RPMI-1640, and F-12.
4. **Instructions:** After addition, the medium can be used directly for cell culture without further processing. Depending on the cell type and experimental needs, it is recommended to prepare complete medium together with serum, antibiotics, and other supplements.

Storage

Store at 4 °C, protected from light, valid for 12 months.

Precautions

1. Observe aseptic techniques to prevent microbial contamination.
2. The product is for R&D use only, not for diagnostic procedures, food, drug, household or other uses.
3. This product may irritate skin, eyes, and the respiratory tract. Please wear a lab coat and disposable gloves.

Components

Components	MW	Concentration (mg/L)	mM
Glycine	75.07	750	10
L-Alanine	105.09	890	10
L-Asparagine	113.10	1320	10
L-Aspartic acid	147.13	1330	10
L-Glutamic Acid	115.13	1470	10
L-Proline	89.09	1150	10
L-Serine	150.13	1050	10

TargetMol US

 www.targetmol.com  sales@targetmol.com  1-781-999-5354
 36 Washington Street, Wellesley Hills, MA 02481 USA

TargetMol EU

 www.targetmol.com  sales@targetmol.com  +43(0)676/7860258
 Hafenstraße 47-51, 4020 Linz, Austria



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