

Sodium Pyruvate (100X)

Introduction

Pyruvate serves as a crucial energy substrate in cell culture. In glucose-containing medium, sodium pyruvate supplements the primary carbon source, supporting cellular bioenergetics while mitigating excessive lactate accumulation associated with high glucose metabolism. Although endogenous pyruvate is a natural metabolite of glycolysis, exogenous supplementation is particularly advantageous in low-glucose formulations.

Sodium Pyruvate Solution (100X) is a sterile, ready-to-use reagent formulated at 100 mM (11 g/L). It can be added directly to cell culture medium or used in other laboratory applications.

Storage

Store at 4°C for one year or at -20°C for long-term storage.

Protocol

For most cell lines, a 1:100 dilution is recommended. This ratio may be optimized based on specific cell types or medium formulations.

Note

1. Avoid microbial contamination during use.
2. For your safety and health, please wear lab coats and gloves during the experiment.
3. For research use only. Not to be used in clinical diagnostic or clinical trials.



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