



Sodium Pyruvate Solution 100mM

Product Code: TCL015

Product Description:

Molecular Formula: $C_3H_3NaO_3$

Molecular Weight: 110.0

Pyruvate is a key intersection in the network of metabolic pathways. Pyruvate is an intermediary organic acid metabolite in glycolysis and the EMP pathway. It initiates the Krebs cycle and is thus involved in the production of ATP within the cell. Addition of Sodium pyruvate to tissue culture medium provides both an energy source and a carbon skeleton for anabolic processes. It helps in maintaining certain specialized cells and necessary when the serum concentration is reduced in the medium. It may also have a protective effect against hydrogen peroxide.

TCL015 is a 100mM solution of sodium pyruvate prepared in cell culture grade water. It is commonly used at a concentration of 1mM in cell culture applications.

Storage and Shelf Life:

Store at 2-8°C.

Shelf life of the product is 24 months.

Use before expiry date given on the product label.

Quality Control:

Appearance

Colorless, clear solution.

pH

6.00 - 7.00

Osmolality in mOsm/Kg H₂O

160.00 - 200.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural Response

Growth promotion and toxicity studies were carried out at 1mM (100mg/l) concentration using a suitable test medium.

Endotoxin Content

NMT 0.5 EU/ml

Disclaimer :

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