
CDH

Product Specification

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# Technical Information

## Sodium Pyruvate Solution 100mM

Sterile filtered

## Product Code:TCL1015

**Application**:
**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 Kreb's 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. TCL1015 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.

## Quality control

**Appearance**
Colourless, clear solution

**pH**
6.00 -7.00

**Osmolality in mOsm/Kg$H_2O$**
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 5EU/ml

## 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.

## Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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