Sodium Pyruvate

Source of energy and carbon in culture media

In cell and microbial culture media, Sodium Pyruvate can use as energy source and also carbon source for anabolic processes. This property is due to Sodium Pyruvate origin. This chemical is an intermediary organic acid metabolic in glycolysis.

Sodium pyruvate powder acts as an antioxidant to scavenge free radicals and shield cells from oxidative stress.

To isolate specific bacterial strains based on their metabolic characteristics, lab preparation of tailored microbial culture medium is necessary. Furthermore, because of its role in cellular metabolism and energy production—specifically in the Krebs cycle—sodium pyruvate is significant for biochemical research.

Cat. Number	ASC-1016
CAS Number	113-24-6
MDL Number	MFCD00002586
Pubchem	310280153
Molecular Weight	110.04 gr/mol
Molecular Formula	$C_3H_3NaO_3$
Storage Temperature	20 °C
Form and Color	Powder – White to off-white
Solubility (10% in water)	Clear to a little faintly turbid, colorless to pale yellow
pH Value	5.1 - 7
FT-IR Spectrum	Corresponds to reference spectrum.
Loss on Drying	≤ 1%