

Phenol red sodium salt

Cell Culture Tested

Product Code: TC045

Product Description :

Molecular Weight: 376.36

Molecular Formula: $C_{19}H_{13}NaO_5S$

CAS No.: 34487-61-1

Synonym: Phenolsulfonephthalein sodium salt

Phenol red is used as a pH indicator since its color exhibits a gradual change from yellow to red over a pH range of 6.8 to 8.2. Phenol red solution is widely used in cell culture for monitoring pH changes.

The living tissues flourish in an environment of neutral pH. Hence it is required that the pH of the medium in which the cells are cultured must be maintained at near-neutral range. Addition of phenol red will provide pink-red color to the medium under normal conditions. In events such as accumulation of waste products or death of the cells, there is a resultant change in the pH leading to the change in the color of the indicator. On acidification, the medium will turn yellow indicating the need of replacement of medium or it is also indicative of bacterial contamination.

Directions :

Preparation instructions:

Phenol red is soluble in water. For cell culture applications, phenol red solutions are prepared in Dulbecco's Phosphate Buffered Saline at concentration of 0.4% to 0.5%. Constant stirring may be required for complete dissolution of powder. The solutions are sterilized by filtering through a sterile membrane filter with porosity of 0.22 microns or less.

Quality Control:

Appearance

Dark red to Brown powder

Solubility

Dark red solution at 0.1gm in 100ml of water

pH

6.50 -8.20

Loss on drying

NMT 5%

Cell Culture Test

Passes

Storage and Shelf Life:

Store phenol red powder at 15-30°C away from bright light. Shelf life is 48 months.

Use before expiry date given on the product label.

Store phenol red solutions also at 15-30°C away from bright light. They remain stable for 24 months when stored in this condition.

Disclaimer :

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