

Technical Data Sheet

12/07/2017

HEPES, cell culture tested

Product code:  
PM-B2093

<b><u>Appearance:</u></b>	White free-flowing crystalline powder
<b><u>Molecular weight:</u></b>	238,3 g/mol
<b><u>CAS N°:</u></b>	7365-45-9
<b><u>Chemical formula:</u></b>	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S
<b><u>Storage conditions:</u></b>	Room temperature, protected from moisture
<b><u>Shelf life:</u></b>	36 months

Tests	Specifications
Appearance	White free-flowing crystalline powder
Assay	≥ 99.0%
Loss on drying	Tested
Chloride	≤ 0.005%

**Recommended use:**

Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store the product in a dry area
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall...)

- Protect the product from any form of humidity
- Use, in one time, after opening, the entire quantity of product of the container. If it is not possible, close the container immediately after sampling the quantity of powder required.

The product is intended to be used in vitro, in laboratory only. Do not use it in therapy, human or veterinary applications.

## **Application:**

Hepes is a widely used buffer in biological studies. In cell culture, Hepes is generally used at 10 to 25mM. Hepes is considered as a better buffer than the sodium bicarbonate in cell culture. It is effective as a buffer at pH 6.8 to 8.2.

A buffer solution of HEPES can be prepared by adding Hepes to water, the pH must be adjusted with sodium hydroxide or potassium hydroxide near to 7.0.

Then, the solution can be filtered.

NB: Hepes is not recommended for some applications with proteins because it interferes with the Folin protein assay but not with the Biuret assay.