

## Description

Eagle's Minimum Essential Medium (EMEM), is modified from MEM to contain Earle's Balanced Salt Solution, non-essential amino acids, L-glutamine, sodium pyruvate, sodium bicarbonate, and phenol red. This formulation supports cell culture, growth, and viability, providing a balanced environment for maintaining a variety of cell lines. The phenol red indicator allows for monitoring pH changes, ensuring optimal conditions for cell cultivation.

## Application

Used in cell culture, particularly for adherent cells (single-layer cells).

## Directions for Use

- Preparation:** Mix the medium thoroughly before use. If necessary, filter sterilize to ensure a contaminant-free solution.
- Cell Culturing:** For most mammalian cells, dilute or supplement with fetal bovine serum (FBS) or another appropriate supplement to the required concentration.
- pH Monitoring:** Regularly monitor the pH level. The medium should be slightly acidic (pH 7.0–7.4) under normal cell culture conditions.

## Package Size

500 mL

## Storage

Store at 4°C for up to 12 months.

## Relative Products

[DMEM/F12, HEPES \(TBS8083\)](#)

[DMEM \(Dulbecco's Modification of Eagle's Medium\) \(TBS8061\)](#)

[RPMI-1640 Medium, Glucose Free \(TBS8063GF\)](#)

[Ham's F12 medium with L-Glutamine \(TBS8032\)](#)

[HT Supplement \(TBS8073\)](#)

[MCDB153 Medium\(TBS8043\)](#)

[0.05% Trypsin-EDTA\(1x\) in PBS. \(TBS8085\)](#)

[Antimycotic \(Pen/Strep/Fungizone\) Solution \(100x\) \(TBS8037\)](#)

[Hybridoma Cell Growth Medium with Hypoxanthine-Thymidine \(HT\) \(TBS8074\)](#)

[MCF-7 Cell Complete Medium \(TBS8047\)](#)

[MCF10 Cell Complete Medium \(TBS8024\)](#)

[FBS \(TBS8003\)](#)

## Compositions

Component	Concentration
<b>Inorganic Salts</b>	
CaCl <sub>2</sub> (anhydrous)	0.2 g/liter
MgSO <sub>4</sub> (anhydrous)	0.09767 g/liter
KCl	0.4 g/liter
NaHCO <sub>3</sub>	1.5 g/liter
NaCl	6.8 g/liter
NaH <sub>2</sub> PO <sub>4</sub> ·H <sub>2</sub> O	0.14 g/liter
<b>Amino Acids</b>	
L-Alanine	0.0089 g/liter
L-Arginine·HCl	0.1264 g/liter
L-Asparagine·H <sub>2</sub> O	0.015 g/liter
L-Aspartic Acid	0.0133 g/liter
L-Cystine·2HCl	0.0312 g/liter
L-Glutamic Acid	0.0147 g/liter
L-Glutamine	0.292 g/liter
Glycine	0.0075 g/liter
L-Histidine·HCl·H <sub>2</sub> O	0.0419 g/liter
L-Isoleucine	0.0525 g/liter
L-Leucine	0.0525 g/liter
L-Lysine·HCl	0.0725 g/liter
L-Methionine	0.015 g/liter
L-Phenylalanine	0.0325 g/liter
L-Proline	0.0115 g/liter
L-Serine	0.0105 g/liter
L-Threonine	0.0476 g/liter
L-Tryptophan	0.01 g/liter
L-Tyrosine·2Na·2H <sub>2</sub> O	0.0519 g/liter
L-Valine	0.0468 g/liter
<b>Vitamins</b>	
Choline Chloride	0.001 g/liter
Folic Acid	0.001 g/liter
myo-Inositol	0.002 g/liter
Nicotinamide	0.001 g/liter
D-Pantothenic Acid (calcium)	0.001 g/liter
Pyridoxine·HCl	0.001 g/liter
Riboflavin	0.0001 g/liter
Thiamine·HCl	0.001 g/liter
<b>Other</b>	
D-Glucose	1 g/liter
Phenol Red, Sodium Salt	0.01 g/liter
Sodium Pyruvate	0.11 g/liter

**This product is for research use only.**