



Dulbecco's Modified Eagle's Medium - high glucose and 25mM HEPES (DMEM)

Catalog Number: 09241

Product Description

Dulbecco's Modified Eagle's Medium (DMEM) is a modification of Basal Medium Eagle (BME) that contains four-fold concentrations of the amino acids and vitamins as well as additional supplementary components. The original formulation contained 1000 mg/L of glucose and was used to culture embryonic mouse cells. Since then, it has been modified in several ways to support primary cultures of mouse and chicken cells, as well as a variety of normal and transformed cells. Each of these media offers a different combination of L-glutamine, sodium pyruvate, and HEPES. Additionally, the glucose levels have been raised to 4500 mg/L, contributing to the name "DMEM-high".

Specification

Dulbecco's Modified Eagle's Medium - high glucose (4500 mg/L)
with L-glutamine
with sodium pyruvate
with sodium bicarbonate
with 25mM HEPES

Liquid, sterile-filtered	
pH	7.4 ± 0.2
Osmolality	340 ± 20
Endotoxin	< 1.0 EU/ml
Expiration	12 month
Human cell culture test	pass

Product Use

DMEM is for research use only. It is not approved for human or animal use, or for application in *in vitro* diagnostic procedures.

Storage

Store the medium at 2 - 8°C. Protect from light.

References

1. Dulbecco, R. and Freeman, G. (1959). Plaque Production by the Polyoma Virus. *Virology*. 8, 396-397.
2. Morton, H.J., (1970). A Survey of Commercially Available Tissue Culture Media. *In Vitro*. 6, 89.

Caution: If handled improperly, some components of the medium may present a health hazard. Take appropriate precautions when handling it, including the wearing of protective clothing and eyewear. Dispose of properly.