

Technical Data Sheet

Date: 30/04/2014

Product Code: LM-D1108

Description: DMEM High Glucose w/o L-Glutamine, w/o Sodium Pyruvate

Theoretical pH:	7.3 ± 0.3
Osmolarity:	334 mOsm/kg ± 10%
Colour:	Red solution
Storage conditions:	+ 2°C/+8°C
Shelf life:	24 months
Endotoxin:	<1 EU/ml
Composition:	Available on request
Sterility Tests	- Bacteria in aerobic and anaerobic conditions - Fungi and yeasts

Cell Growth Test

Medium tested for the ability to support cell growth with L929 line

Recommended Use:

- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store product in an area protected from light (not necessary for saline solutions)
- Manipulate the product in aseptic conditions (e.g: under laminar air flow)
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g: gloves, mask, hygiene cap, overall...)

Product is provided for laboratory use only, and not for drug, human and veterinary use.

Description

Lots of modifications of Eagle's medium have been developed since the creation of the first formulation. The most used Eagle's medium is the Dulbecco's Modified Eagle's Medium (DMEM).

It is a modification of Basal Medium Eagle (BME) that contains a concentration more important of amino acids and vitamins and also supplementary components. The original formulation contained 1000 mg/l of glucose and was used to culture embryonic mouse cells. The used of 4500 mg/l of glucose in the medium show an optimal cell growth for some cell lines.

Uses

Supplements such as antibiotics should be added as sterile supplements to the medium. Storage conditions and shelf life of supplemented product will be affected by the nature of the supplements. Add 20ml/l of L-Glutamine 200mM (cat. XC-T1715) and 10 ml/l of Sodium Pyruvate 100mM (cat. LM-S2044), before using this medium.

Indication of Deterioration:

Medium should be clear and free of particulate and flocculent material.

Do not use this medium if it is cloudy or contains precipitate.

Other evidence of deterioration may include colour change or degradation of physical or performance characteristics.