



Technical Data Sheet

Date: 30/10/2013

Product Code: LM-D1110

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

Theoretical pH:	7.3 ± 0.3
Osmolality:	331 mOsm/kg ± 10%
Colour:	Red solution
Storage conditions:	2 to 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 cell line

Recommended Use:

Use aseptic technique when handling or supplementing this medium

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.

The stable Glutamine prevents the intramolecular cyclization reaction associated with solutions of L-Glutamine. This derivative is therefore stable in solution and allows the formulation of cell culture media containing L-Glutamine that may be stored at 4°C for extended periods. The dipeptide is metabolized within the cells to yield L-Glutamine plus a second amino acid.

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.

Indication of Deterioration:

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

Do not use if the medium is cloudy or contains precipitate.

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