ClearLine	Technical data sheet Media Liquid	Ref : 509051

DMEM High Glucose

w/ stable L-Glutamine, w/ Sodium Pyruvate

Storage conditions: +2°C to +8°C

Shelf life: 24 months

Composition: Displayed on web site; also available on request

Colour: Red solution

pH: 7.3 ± 0.3

Osmolality: 331 mOsm/kg ± 10 %

Endotoxin: <1 EU/ml

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.

Other tests: Not applicable

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…)

The product is intended to be used in vitro for research or further manufacturing only and not for use as an Active Pharmaceutical Ingredient or food or animal feed.

Application:
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 1000mg/l of glucose and was used to culture embryonic mouse cells. The used of 4500mg/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.

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Uses:
Supplements, such as antibiotics, should be added as sterile supplements to the medium. Storage conditions and shelf-life of supplemented products will be affected by the nature of the supplements.

Signs 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.

Remarks: Not applicable