ClearLine	Technical data sheet	Ref : 509043
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DMEM Ham's F12
w/ Stable Glutamine w/ 15mM Hepes

Storage conditions: +2°C to +8°C in the dark

Shelf life: 12 months

Composition: Displayed on website and in catalog; also available on request.

Colour: Clear red orange solution

pH: 7.0 ± 0.3

Osmolality: 299 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 Hela cell growth.

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:
Studies to determine the nutritional requirements of many cells have been in progress since Eagle's first reports. The major essential nutrients were identified and work became focused on the media requirements of individual cell types. Many media designed for these purposes are now available. Among the first of these media, developed initially to study hormonal requirements of cells in culture, was a mixture of DMEM medium and Ham's F12 medium, known as DMEM Ham's F12.
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 Stable Glutamine is metabolized within the cells to yield L-Glutamine plus a second amino acid. This result in more consistent delivery of L-Glutamine to your cells and avoid toxic build-up of ammonia in your cell cultures. This feature can be especially important for ammonia-sensitive 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.

Signs of Deterioration:
Medium should be clear and free of particulate and flocculent material. Do not use if medium is cloudy or contains precipitate.
Other evidence of deterioration may include colour change or degradation of physical or performance characteristics.

Remarks: Not applicable