ClearLine	Technical data sheet Media Liquid	Ref : 509086

RPMI 1640

w/ 25mM Hepes w/ stable Glutamine

Storage +2°C to +8°C in the dark

Shelf life: 24 months

Composition: Displayed on website; also available on request

Colour: Clear orange solution

pH: 7.3 ± 0.3

Osmolality: 294 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 SP2/0-Ag14 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:
RPMI 1640 medium has a broad spectrum of mammalian and hybridoma cell applications. It was developed by Moore and his co-workers at Roswell Park Memorial Institute in 1966 for the growth of human leukemia cells in monolayer or suspension cultures. It is typically supplemented with serum or serum substitutes. This RPMI 1640 contains a dipeptide derivatives of L-Glutamine which prevent the intramolecular cyclization reaction associated with solutions of L-Glutamine. The dipeptide derivatives are metabolized within the cells to yield L-Glutamine plus the second amino acid. This results 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