



# **Product Specification**

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# **Technical Information**

## **Fischer's Medium**

### With L-Glutamine without Sodium bicarbonate

### Product Code: AT1054

**Application:** - Fischer's medium was originally formulated to support serial propagation of cells from leukemic mice. Fischer's medium supports clonal reproduction of cells, particularly lymphoblast from primary explants or from cells in culture. AT1054 is Fischer's Medium with L-glutamine. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

## Composition\*\*

# Animal Cell Culture



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myo-inositoi
OTHERS
D-Glucose
Phenol red sodium salt
i nenor rea sourant sure

1000.000 5.300

1.500

# Methodology

- 1. Suspend 10.5gms in 900ml tissue culture grade water with constant, gentle stirring until the powder is completely dissolved. Do not heat the water.
- 2. Add 1.125gms of sodium bicarbonate powder (TC1230) or15.0 ml of 7.5% sodium bicarbonate solution (TCL1013) for 1 litre of medium and stir until dissolved.
- 3. Adjust the pH to 0.2 0.3 pH units below the desired pH using 1N HCl or 1N NaOH since the pH tends to rise during filtration.
- 4. Make up the final volume to 1000ml with tissue culture grade water.
- 5. Sterilize the medium immediately by filtering through a sterile membrane filter with a porosity of 0.22 micron or less, using positive pressure rather than vacuum to minimize the loss of carbon dioxide
- 6. Aseptically add sterile supplements as required and dispense the desired amount of sterile medium into sterile container.
- 7. Store liquid medium at 2-8°C and in dark till use.

# Material required but not provided

Tissue culture grade water (TCL1010)

Sodium bicarbonate (TC1230) Sodium bicarbonate solution, 7.5% (TCL1013) 1N Hydrochloric acid (TCL1003) 1N Sodium hydroxide (TCL1002) Foetal bovine serum (BA3112/BA30432)

# **Quality Control**

#### Appearance

Off-white to Creamish white, homogenous powder.

Solubility Clear solution at 10.5gms/L

#### pH without Sodium Bicarbonate

6.50-7.10

pH with Sodium Bicarbonate 7.40 -8.00

**Osmolality without Sodium Bicarbonate** 280.00 -320.00

**Osmolality with Sodium Bicarbonate** 300.00 -340.00

#### **Cultural Response**

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts and comparing it with a control medium through minimum three subcultures.

Endotoxin Content NMT 5EU/ml

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# Storage and Shelf Life

1. All the powdered media and prepared liquid culture media should be stored at 2-8°C. Use before the expiry date. In spite of above recommended storage condition, certain powdered medium may show some signs of deterioration /degradation in certain instances. This can be indicated by change in colour, change in appearance and presence of particulate matter and haziness after dissolution.

2. Preparation of concentrated medium is not recommended since free base amino acids and salt complexes having low solubility may precipitate in concentrated medium.

3. pH and sodium bicarbonate concentration of the prepared medium are critical factors affecting cell growth. This is also influenced by amount of medium and volume of culture vessel used (surface to volume ratio). For example, in large bottles, such as Roux bottles pH tends to rise perceptibly as significant volume of carbon dioxide is released. Therefore, optimal conditions of pH sodium bicarbonate concentration, surface to volume ratio must be determined for each cell type. We recommend stringent monitoring of pH. If needed, pH can be adjusted by using sterile 1N HCl or 1N NaOH or by bubbling in carbon dioxide.

4. If required, supplements can be added to the medium prior to or after filter sterilization observing sterility precautions. Shelf life of the medium will depend on the nature of supplement added to the medium.

### **Disclaimer**:

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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- Do not use the products if it fails to meet specificatons for identity and performens parameters.