



**MSI015Ra11**

## **Medium for Primary Rat Umbilical Mesenchymal Stem Cells (UMSC)**

*Instruction manual*

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Revised in Jun, 2024)

### **[ Description ]**

Medium for Primary Rat Umbilical Mesenchymal Stem Cells , is a liquid medium free of mycoplasma, bacteria and fungi and contains essential and non-essential amino acids, vitamins, organic and inorganic compounds, hormones, growth factors, trace minerals and 10% concentrations of fetal bovine serum . It is a complete medium designed for optimal growth of Primary Rat Umbilical Mesenchymal Stem Cells *in vitro*.

### **[ Components ]**

500 ml of Medium for Primary Rat Umbilical Mesenchymal Stem Cells consists of basal medium, 50 ml of FBS, 5 ml of Mesenchymal Stem Cell Growth Supplement and 5 ml of penicillin/streptomycin solution.

*Note: FBS, Mesenchymal Stem Cell Growth Supplement and P/S are not pre-mixed in Primary Rat Umbilical Mesenchymal Stem Cells Medium; they must be added separately to make the complete Primary Rat Umbilical Mesenchymal Stem Cells Medium.*

### **[ Storage ]**

Store the basal medium at 4°C, Mesenchymal Stem Cell Growth Supplement, FBS and P/S solutions at -20°C.

Protect from light.

### **[ Shipping ]**

Basal medium : room temperature. Mesenchymal Stem Cell Growth Supplement, FBS and P/S solution: dry ice.

### **[ Usage ]**

Mesenchymal Stem Cell Growth Supplement, FBS and P/S solutions were thawed at room temperature, sprayed with 75% ethanol on bottles and tubes, and transferred to a sterile operating table. In a sterile field, Mesenchymal Stem Cell Growth Supplement, FBS and P/S solutions were added to the basal medium and mixed evenly to obtain the recombinant complete medium, which was directly used for culture of Primary Rat Umbilical Mesenchymal Stem Cells *in vitro* .

*Note: When stored in the dark at 4°C, the reconstituted complete medium is stable for three months.*

### **[ Important note ]**

- In order to maintain the best use effect of this product, do not place it in room temperature or high temperature environment for a long time.
- This product is for scientific research use only. It is not for diagnostic, therapeutic, clinical, family and other purposes.