



**MSI113Ra11**

## **Medium for Rat Nucleus Pulposus Cells (NPC)**

***Instruction manual***

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1th Edition (Revised in Nov, 2023)

### **[ Description ]**

Medium for Rat Nucleus Pulposus Cells (NPC), 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 low concentrations of fetal bovine serum (5%). It is a complete medium designed for optimal growth of Rat Nucleus Pulposus Cells (NPC) *in vitro*.

### **[ Components ]**

500 ml of Medium for Rat Nucleus Pulposus Cells (NPC) consists of basal medium (DMEM), 25 ml of FBS, 5 ml of Nucleus Pulposus cell growth supplement and 5 ml of penicillin/streptomycin solution.

*Note: 25 ml FBS, 5 ml Nucleus Pulposus cell growth supplement and 5 ml P/S solution are not pre-mixed in Rat Nucleus Pulposus Cells Medium; they must be added separately to make the complete Rat Nucleus Pulposus Cells Medium.*

### **[ Storage ]**

Store the basal medium at 4°C, FBS, Nucleus Pulposus cell growth supplement and P/S solutions at -20°C.

Protect from light.

### **[ Shipping ]**

Basal medium : room temperature. FBS, Nucleus Pulposus cell growth supplement and P/S solutions: dry ice.

### **[ Usage ]**

FBS, Nucleus Pulposus cell growth supplement 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, FBS, Nucleus Pulposus cell growth supplement 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 Rat Nucleus Pulposus 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.