



## Nucleus Pulposus Cell Growth Supplement (NPCGS) Catalog #4852

### Product Description

Nucleus Pulposus Cell Growth Supplement (NPCGS) is a sterile, concentrated (100X) solution which contains growth factors, hormones, and proteins necessary for the culture of normal nucleus pulposus cells. The supplement is formulated (quantitatively and qualitatively) to provide an optimally balanced environment that selectively supports the growth of normal nucleus pulposus cells *in vitro*.

### Product Use

NPCGS is for research use only. It is not approved for human or animal use, or for application in *in vitro* diagnostic procedures.

### Storage

Store NPCGS at  $-20^{\circ}\text{C}$ ; once added to medium, store at  $4^{\circ}\text{C}$  and protect from light. Do not refreeze after thawing.

### Shipping

Dry ice.

### Instructions for Use

For best results, use NPCGS in conjunction with 500 ml Human Nucleus Pulposus Cell Medium-b (HNPC-b, Cat #4801-b) and 10 ml fetal bovine serum (FBS, Cat #0010).

Thaw NPCGS at  $37^{\circ}\text{C}$ . Gently tilt the tube several times to ensure complete mixing. Spray the medium bottle and supplement tube with 70% ethanol and wipe to remove excess liquid. In a sterile field, remove the caps without touching the interior threads with fingers. Add NPCGS to the basal medium and mix well. Since several components are light-labile, the medium should not be exposed to light for extended periods. We do not recommend warming medium in a  $37^{\circ}\text{C}$  water bath prior to use. When stored in the dark at  $4^{\circ}\text{C}$ , the reconstituted medium is stable for one month.

*Caution: If handled improperly, some components of the medium may present a health hazard. Take appropriate precautions when handling it, including the wearing of protective clothing and eyewear. Dispose of properly.*