

### **CultureBoost-R™ (4CB-500-R)**

**Product Description:** CultureBoost-R™ Growth Factor for Cell Cultures. Can be purchased separately or comes in Medium Kits 4Z0-500-R or 4Z3-500-R. CultureBoost-R™ contains defined growth factors and porcine heparin. CultureBoost-R™ is produced by bacterial fermentation of *E.coli*. The product's working concentration is 10ng/mL. Biological activity is adjusted to 110% of maximum using CSC 2V0 Human Venous Endothelial cells, ACBRI 181 Primary Retinal Microvascular Endothelial cells, and ACBRI 376 Primary Brain Microvascular Endothelial cells. CultureBoost-R™ is qualified for use with Cell Systems media, and when initiating, thawing, expanding or passaging cultures of all mesenchymal-derived cells. Use of CultureBoost-R™ can result in as much as 25% increase in recovery from freezing, an increase of 10-20% in cell count per passage, and a one day decrease in time-to-confluence. The effects of CultureBoost™ are most pronounced with extremely fastidious cells.

Cell Systems media and reagents are sterile, made with WFI and all components are cGMP and ISO Compliant.

**Components:** This 10mL vial supplements 500mL Medium. CultureBoost-R™ is included in Cell Systems Cell Culture Medium Kits, 4Z0-500-R and 4Z3-500-R.

**Storage:** Can be frozen at -20°C. Once opened, shelf life is 30 days at +2-8°C. If entire unit will not be used within 30 days, aliquot and freeze.

**Product Use:** 4CB-500-R is for laboratory research only. It is not approved for human or animal use, or for application in *in vitro* diagnostic procedures.

**Shipping:** All medium and reagents shipped at ambient temperature.

**Instructions for Use:** Make sure all work surfaces are disinfected. Spray the outside of your gloves prior to work under the hood.

- Spray the outside of all tools/instruments (bottles, tubes, racks, etc.) with ethanol solution before bringing them under the hood.
- Use 10mL to supplement 500mL cell culture medium.
- Or use as an application in the vial thaw procedure:
- Cells are at their most fragile when in recovery from thawing or passage. The growth factors in CultureBoost™ and CultureBoost-R™ stabilize the plasma membrane and provide a concentrated dose of factors that have been shown to aid the cell in attachment, activation, and achievement of polarity.
- CultureBoost-R™ can be beneficially used any time cells are "loosened" from the pellet prior to resuspension in Cell Systems Medium in preparation for plating. The best results of using CultureBoost™ are evident when 50-100 microliters are added to the loosened cell pellet just prior to resuspension in medium. Please refer to our Passage Reagent Group™ (cat. #4Z0-800).