

---

## Certificate of Analysis

**NCR Protein-Free Cryopreservation Media**

Catalog No. NCPF-10001-50  
Lot Number: 120830c01

Preparation Date: 2012-8-30  
Size: 50ml

---

### Kit Components

Containing 50 ml of NCR Protein-Free Cryopreservation Medium (Cat. No. NCPF-10001) , pH 7.2~7.4.  
Store at 4 °C.

### Sterility

Bacterial and Fungal Contamination: Samples are inoculated and cultured on blood agar plate, thioglycolate broth, tryptocase soy broth and sabouraud dextrose agar.

Specification: No growth must be observed.

Mycoplasma: Samples are tested for mycoplasma contamination using a PCR-based assay and direct culture.

Specification: Results must be negative.

Endotoxin: Samples are tested for endotoxin contamination with LAL test.

Specification: Results must show a concentration of  $\leq 25\text{EU/ml}$ .

### Cell Recovery Rates Testing

Each batch of cryopreservation medium is performance tested on sprague-dawley rat mesenchymal stem cel. The cells are assayed for viability and recovery after thawing. The results of these tests must indicate  $\geq 90\%$  of cells are viable.

### Results:

All specifications have been met.

---

*Jane Chen*

Jane Chen  
QA Manager  
Sep 14, 2012