

Certificate of Analysis

Corning® Cell Recovery Solution

The use of MatriSpere Cell Recovery Solution is recommended as a highly reproducible method of recovering certain cell types from Corning® Matrigel® Matrix for subsequent biochemical analysis, i.e. mRNAs or protein isolation. It has been successfully used in our laboratories with primary hepatocytes and smooth muscle cells. Corning Cell Recovery Solution depolymerizes Corning Matrigel Matrix gels at 2-8°C without enzymatic digestion and/or lengthy incubation periods at high temperatures. Cells are released without damage thereby avoiding biochemical changes during incubation and digestion of extracellular portions of cell surface receptors and adhesion molecules. If sterile conditions are maintained, cells recovered from dispersed Matrigel Matrix can be replated. Dispase is recommended as an alternative to Corning Cell Recovery Solution when single cell suspensions are needed for cell counting and/or replating.

CATALOG NUMBER: 354253 LOT NUMBER: 5019313

QUANTITY &
PHYSICAL FORM: 100 milliliters

USE: Corning Cell Recovery Solution is used full strength to recover cells from Corning Matrigel Matrix.

Recovery of Cells from Corning Matrigel Matrix¹


- Remove medium and wash the layer of cells on the Corning Matrigel Matrix 3 times with cold PBS.
- Add 2 ml per 35 mm dish Corning Cell Recovery Solution (scale up or down proportionally).
- Scrape the cell/gel layer into an ice-cold 50 ml Conical Tube sitting on ice.
- Rinse the dish again with 2-4 mls of Corning Cell Recovery Solution solution and transfer to the tube.
- Invert the tube a few times and leave it on ice for 1 hour or until the Corning Matrigel gel has complete dissolved. Rock the tube back and forth to speed up the process. After about 30 minutes on ice, the cells are settling down to the bottom of the tube indicating that the gel is dissolving. **Do not pipet the gel in the tube because this may damage the cells.**
- After complete release from the gel, centrifuge the cells to a pellet at the bottom of the tube, at 200 – 300 x G for 5 minutes in a clinical centrifuge at 2-8°C.
- Wash cell pellet by gentle resuspension in ice cold PBS and centrifugation (twice) at 2-8°C.
- Use cells to isolate RNA or nuclear proteins etc. according to standard procedures,² or to replate cells onto other ECMS if sterile conditions are maintained

QUALITY CONTROL: This lot passes a test for depolymerization of a 1 mm thick layer of gelled Corning® Matrigel® Matrix after 60 minutes on ice. Corning Cell Recovery Solution is a 0.2 micron membrane-filtered solution. Tested for the presence of bacteria, fungi and mycoplasma.

STORAGE: Stable when stored at 2-8°C. **DO NOT FREEZE.**

EXPIRATION DATE: March 14, 2017

REFERENCE: 1. Unpublished results, Flaherty, P. et al., 1995.
2. Rana et al., MCB, **14**:5858, 1994.



Quality Assurance



Date