

PRODUCT SPECIFICATION SHEET

BD Cell Recovery Solution

The use of MatriSpense Cell Recovery Solution is recommended as a highly reproducible method of recovering certain cell types from 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. BD Cell Recovery Solution depolymerizes 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 BD Cell Recovery Solution when single cell suspensions are needed for cell counting and/or replating.

CATALOG NUMBER: 354253 LOT NUMBER: _____

QUANTITY &
PHYSICAL FORM: 100 milliliters

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

Recovery of Cells from Matrigel Matrix¹

- Remove medium and wash the layer of cells on the Matrigel matrix 3 times with cold PBS.
- Add 2 ml per 35 mm dish BD Cell Recovery Solution (scale up or down proportionally).
- Scrape the cell/gel layer into an ice-cold 50 ml BD Falcon™ conical tube sitting on ice.
- Rinse the dish again with 2-4 mls of BD 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 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

BD Biosciences

Clontech
Discovery Labware
Immunocytometry Systems
Pharmingen



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

STABILITY: Stable for a minimum of 3 months from date of shipment when stored at 2-8°C.

REFERENCE:

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 Unpublished results, Flaherty, P. et al., 1995.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

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.