

3D Cell Culture Non-Enzymatic Cell Harvesting Kit

Cat. No. Kit-2371 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Three dimensional (3D) cell cultures are artificially-created environments in which cells are permitted to grow or interact with their surroundings in a 3D fashion. 3D cell cultures improve the function, differentiation and viability of cells and recapitulate in vivo microenvironment compared to conventional 2D cell cultures. 3D matrices provide a physiologically relevant screening platform, by mimicking the in vivo responses, for many cell types including cancer and stem cells in developmental morphogenesis, pharmacology, drug metabolism and drug toxicity studies. However, when it comes to cell passaging, or studying biochemical processes and protein analysis, there are challenges with separating intact cells from extra-cellular proteins comprising the 3D matrices. While proteases (such as trypsin and accutase) are commonly used to degrade these matrices, it is not recommended in some cases where cells are sensitive to protease digestion; these proteases may modify cellular proteins and signaling or cell surface, thus altering physiological assessments. Further, some proteases-based dissociation methods do not completely dissolve the matrices. 3D Culture Non-Enzymatic Cell Harvesting Kit provides an optimized and standardized saline-based solution for the isolation of cells and spheroids from matrices (especially for 3D Cell Culture Kits: K517, 518, 519) with high viability rate for subsequent biochemical, protein and cell-based analysis.

Applications

Matrix and Cell/Spheroid Dissociations
Cell-harvesting for usage in cell-based assay, biochemical, and protein analysis
Recommended for experiment where cells are sensitive to protease digestion.

Storage

-20°C

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Shipping	Gel Pack
Size	100 samples
Kit Components	Matrix Dissociation Saline Solution; Neutralization
Detection method	Qualitative
Features & Benefits	Easy, Fast, Reproducible, Qualitative tool for screening, studying, and characterizing compounds in cell culture studies; Recommended for experiment where cells are sensitive to protease digestion

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