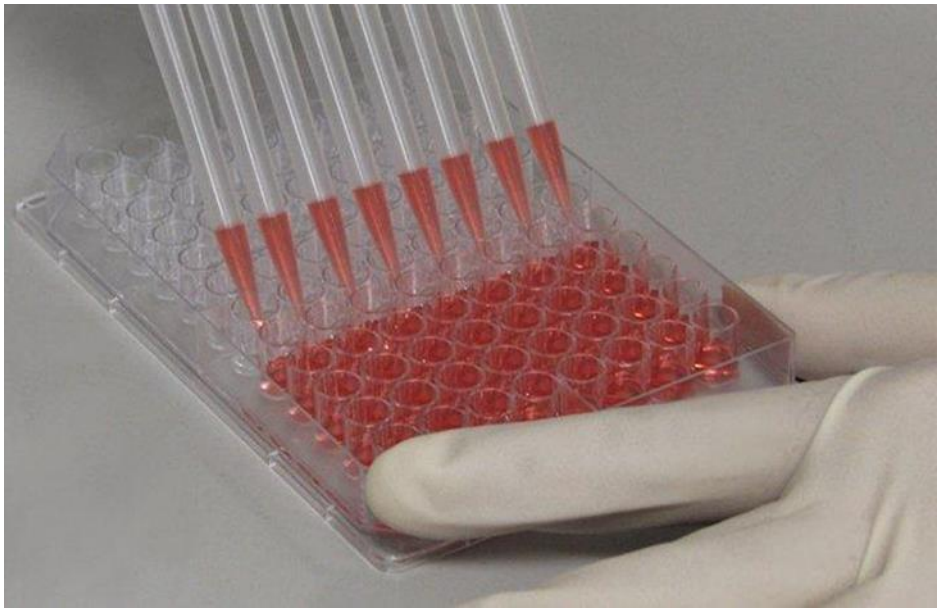

(Figure 2.8): The diluted cells were plated at a desired volume on cell culture plates (96-wells).

2.3.9.5. Cell-based insulin degradation assay

Normal and diabetic rat hepatocytes were grown to subconfluence on a 69-well dish. One well should be a cell-free control in each study. The appropriate amount of human insulin (100 nM, 200 nM) was applied to the cell cultures. 100 µl of medium was collected after 15, 30 and 60 min of incubation and the insulin concentration was measured by Elecsys 2010 analyzer.

2.3.9.6. The inhibitory effect of bacitracin on cell-mediated insulin degradation in isolated hepatocytes

Normal and diabetic rat hepatic cells were grown to subconfluence on a 69-well plate. One well should be a cell-free control in each study. Each of concentrations of bacitracin (300 µM, 1 mM) was applied for plate of 100 nM human insulin. Similarly, each of the same amounts of bacitracin was applied on 200 nM insulin. 100 µl of