

DQ-Collagen Assay General Protocol Stack Lab

1. Thaw Matrigel at 4°C (Concentration of Matrigel is 11-12mg/ml, dilute to 1mg/ml in MEM, can store at -80°C).
Add 25 ug/ml of DQ-collagen I or IV to Matrigel.
Tip: to avoid foam, put in 50 ml tube, mix it by stirring with pipette tip (not pipetting).
2. Coat the glass well surface with 50 ul of Matrigel containing 25 ug/ml of DQ-collagen IV or I (30 mm MatTek plates with 14mm well) and leave it in 37°C incubator to solidify for 15 min.
3. Prepare the cells: Detach the cells with trypsin, neutralize, spin the cells at 9000 rpm for 4 min. and resuspend the cell pellet at 100,000 ~150,000 cells/ml in serum free medium. Add 2 ml of the cells to each dish. (for better result, use the medium without phenol red.)
4. Place in 37°C incubator for 24 to 48 hrs.
5. Use water immersion lens and observe under microscope.

DO-Collagen I: Molecular Probes # D12060

DO-Collagen IV: Molecular Probes # D12052

Culture dish: Met Tek corporation # P35G-1.0-14-C