

Materials List for:

# Optimized Fibrin Gel Bead Assay for the Study of Angiogenesis

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## Materials

| Name              | Type    | Company       | Catalog Number | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|---------|---------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cytodex-3 Beads   | Reagent | Amersham      | 17-0485-01     | 10 g/bottle. 1.0.5 g of dry beads are hydrated and swollen in 50 mL PBS (pH=7.4) for at least 3 hours at RT. Use a 50 mL tube and place it on the rocker. 2. Let the beads settle down (~ 15 min). Discard the supernatant and wash the beads for a few minutes in fresh PBS (50 mL). 3. Discard the PBS and replace with fresh PBS: 25 mL -> 20 mg/mL => 60000 beads/mL or 50 mL -> 10 mg/mL => 30000 beads/mL. 4. Place the bead suspension in a siliconized glass bottle (Windshield Wiper or Sigmacote). 5. Sterilize the beads by autoclaving for 15 min at 115°C. 6. Store it at 4°C. |
| Aprotinin         | Reagent | Sigma-Aldrich | A-1153         | 10mg/bottle. Reconstitute lyophilized aprotinin at 4 U/mL in DI water. Sterile filter. Make aliquots of 1 mL each. Store at -20°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Fibrinogen Type I | Reagent | Sigma-Aldrich | F-8630         | 1g. Dissolve 2 mg/mL fibrinogen in DPBS. Note clottable protein % and adjust accordingly. Heat in a 37°C-water bath to dissolve the fibrinogen. Mix by inverting the tube. Do not vortex. Sterile filter through 0.22 µm                                                                                                                                                                                                                                                                                                                                                                    |
| Thrombin          | Reagent | Sigma-Aldrich | T-3399         | 22 mg=1000 units. Reconstitute in sterile water at 50 U/mL. Make aliquots of 0.5 mL each. Store at -20°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |