

Materials List for:

# Layered Alginate Constructs: A Platform for Co-culture of Heterogeneous Cell Populations

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## Materials

| Name                                                              | Company                   | Catalog Number | Comments                                                 |
|-------------------------------------------------------------------|---------------------------|----------------|----------------------------------------------------------|
| Alginic Acid sodium salt                                          | Sigma Aldrich             | A1112          | Solution made in wt% using DPBS (-/-)                    |
| 1x Dulbecco's Phosphate Buffered Saline (-/-)                     | Gibco Life Technologies   | 14190          |                                                          |
| 1x Dulbecco's Phosphate Buffered Saline (+/+)                     | Gibco Life Technologies   | 14190          |                                                          |
| Dulbecco's Modified Eagle Medium                                  | Gibco Life Technologies   | 11965          | Example. Use desired medium type                         |
| Syringe Filters (0.02 µm Nylon)                                   | FisherBrand               | 0979C          |                                                          |
| Calcium Chloride Dihydrate                                        | Fisher Bioreagents        | BP510          | Prepare solution in sterile water                        |
| Criterion Blotter Filter Paper                                    | Biorad                    | 1704085        | Cut to size of endplates for mold formation              |
| Cell Microsieve Membrane (10 µm pore size)                        | Biodesign Inc of New York | N10R           | Cut to size of endplates for mold formation              |
| Sodium citrate dihydrate                                          | FisherScience             | S93364         |                                                          |
| Ethylenediaminetetraacetic acid tetrasodium salt dihydrate (EDTA) | FisherBioreagent          | BP121          |                                                          |
| Fetal Bovine Serum                                                | Gibco Life Technologies   | 26140          | Used in example mesenchymal stem cell basal growth media |
| Penicillin/Streptomycin (10,000 U/ml)                             | Gibco Life Technologies   | 15140          | Used in example mesenchymal stem cell basal growth media |
| L-Glutamine (200 mM)                                              | Gibco Life Technologies   | 25030081       | Used in example mesenchymal stem cell basal growth media |
| Non-essential Amino Acids (100x)                                  | Gibco Life Technologies   | 11140050       | Used in example mesenchymal stem cell basal growth media |