

**Materials List for:**

# PLGA Nanoparticles Formed by Single- or Double-emulsion with Vitamin E-TPGS

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## Materials

| Name                                 | Company                                                                                  | Catalog Number | Comments                            |
|--------------------------------------|------------------------------------------------------------------------------------------|----------------|-------------------------------------|
| Poly(lactic co-glycolic acid) (PLGA) |  Lactel | B6010-2P       | Inherent Viscosity: 0.55-0.75 dl/g  |
| Ethyl acetate (EtAc)                 | Sigma                                                                                    | 270989         |                                     |
| Methylene chloride (DCM)             |                                                                                          |                |                                     |
| Vitamin E TPGS                       | Sigma                                                                                    | 57668          |                                     |
| Poly(vinyl alcohol)                  |                                                                                          |                | 87-89% hydrolyzed, 30,000-70,000 Da |
| Equipment                            |                                                                                          |                |                                     |
| Sonic Dismembrator                   | Fisher Scientific                                                                        | Model 705      | 700 W (Ultrasonicator)              |
| Sonicator tip                        | Fisher Scientific                                                                        |                | 1/8 in                              |
| Vortexer                             | VWR                                                                                      | 58816-121      |                                     |
| Multiposition stirrer                | Corning                                                                                  | MP5I           |                                     |
| Ultracentrifuge                      | Beckman-Coulter                                                                          | L8-80M         |                                     |
| Fixed angle rotor                    | Beckman-Coulter                                                                          | 50.2TI         |                                     |
| Water bath sonicator                 | Fisher Scientific                                                                        | FS30           |                                     |
| Lyophilizer                          | Millrock                                                                                 | BT85           |                                     |