



RECONSTITUTING LYOPHILIZED TUBULIN



Materials:

- Lyophilized Tubulin (Cat. No. PUR-142001)
- EGTA
- MgCl2
- Liquid Nitrogen

Equipment:

Microcentrifuge at 4°C

Technical Notes:

- Avoid diluting tubulin beyond its critical concentration
- Work on ice with prechilled buffers and equipment

Protocol:

1. Resuspend

a) a. Resuspend to 40 mg/ml in ice-cold Milli-Q water

*buffer conditions upon reconstitution with water will consist of 10 mM Sodium Phosphate, 0.5 mM MgCl2 , 0.1 mM GTP, and 0.25 M Trehalose, pH 7.0

- *1 mg tubulin = 3 mg powder
- b) b. Add EGTA and MgCl2 to 1 mM each

2. Clarify

- a) a. Clarify at 14,000 rpm for 1 minute at 4°C in a microcentrifuge
- b) b. Collect the supernatant on ice
 - *tubulin can be diluted, buffer exchanged or cycling as desired at this point

3. Store

a) Flash freeze in liquid nitrogen and store at -80°C

*aliquot so as to avoid repeated freeze-thaw cyclesAdd 1/10 volume Taxol at 2 uM, incubate in a 37°C water bath for 10 minutes