## **Synthesizing Cholesterol: Cyclodextrin Complexes**

(Klein et al. Biochemistry 34, 13784 (1995))

## **Reagents Needed:**

Methyl-ß-Cyclodextrin Cholesterol (or other sterol) Phosphate-buffered saline Isopropanol Chloroform

## **Procedure:**

- 1. Dissolve 1 g methyl-β-cyclodextrin in 11 ml PBS n a large glass test tube
- 2. Dissolve 30 mg cholesterol in 400  $\mu$ l isopropanol/chloroform (2:1) in a small glass tube
- 3. Warm the cyclodextrin solution to 80° C in a water bath with continuous stirring
- 4. Add the cholesterol solution in 50  $\mu$ l aliquots, stirring until it all goes into solution before adding additional material
- 5. Cool. May be stored almost indefinitely at room temperature.

The final solution contains 6.8 mM cholesterol and 70 mM cyclodextrin (~9% cyclodextrin).