

# Laboratory Experiment Proposal Submission

## Experimental Details

**Experiment location:** E136  
**Experiment title:** Bicelle characterization  
**Experiment date:** 02/22/2012  
**Experiment contactname:** Lionel PORCAR  
**Experiment contactphone:** 301 975 2028  
**Experiment contactemail:** porcar@ill.fr

## Chemicals Used

<u>Chemical Name</u>	<u>Health</u>	<u>Flammability</u>	<u>Reactivity</u>	<u>Special Hazards</u>
DMPC	Blank	Blank	Blank	NONE
D2O	1	0	0	
3-(perfluorooctyl)-1,2-epoxypropane	Blank	Blank	Blank	NONE
2-(1H,1H-perfluoroheptyl)oxirane	Blank	Blank	Blank	NONE
2-(4,4,5,5,6,6,7,7,-octafluoro-2-oxaheptyl)oxirane	Blank	Blank	Blank	NONE
(1H,1H-nonafluoropentyl)oxirane	Blank	Blank	Blank	NONE
Chloroform	Blank	Blank	Blank	NONE

## Reactants and Resulting Samples

<u>Chemical Name</u>	<u>Hazardous?</u>	<u>Known Hazards</u>
Fluoro Bicelle	N	

## Required Safety Equipment

- Glove Neoprene
- Lab Coat

## Required Laboratory Equipment

- Balance
- Centrifuge
- Hot Plate
- Temperature Bath
- DIs
- Roller Mixer
- Temperature Cabinet
- Ultrasonic Bath

## Experimental Write Up

Mix the two powders (lipid DMPC and fluoro surfactant) with D2O and shake it...

amount used : lipid and fluoro surfactant concentration from 2-100 mg/ml

ratio of lipid to fluoro surfactant from 0 to 1

lipid and fluoro surfactant might have to be dissolved in chloroform and then evaporate to make sure they are well mixed

Experimenter Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Lab Responsible Signature: \_\_\_\_\_

Date: \_\_\_\_\_