

# ELICITING FOAM CELLS

## LIPID MAPS Procedure Protocol PP0000003000 Version 1, 07-24-2006

### MATERIALS AND SOLUTIONS

2 month or older autoclaved Thioglycollate Medium (3%) (PS0000001600)  
MALE mice (B6.129S7-LDLrtm1Her/J) ordered at 3-5 weeks of age, stock number 002207, Jackson Laboratory (Protocol PP0000002900)  
High Cholesterol Diet (#TD96121, Harlan Teklad) [www.Harlan.com](http://www.Harlan.com)  
Sterile syringes, 3 mL  
Sterile needles, 18 and 25 gauge  
Sterile pipettes  
Sterile 50 mL conical centrifuge tubes  
70% ethanol  
Tissue culture hood

### PROCEDURE

1. Allow mice to acclimate for 2 weeks before placing on diet.  
Place mice on normal chow or high cholesterol diet for at least 10 weeks prior to eliciting foam cells with thioglycollate.
2. Spray the outside of the autoclaved Thioglycollate Medium (3%) with 70% ethanol, air dry and place in the tissue culture hood.
4. Using a pipette, transfer total volume needed (2.5 mL per mouse) to a 50 mL conical centrifuge tube.
5. Using a 3 mL syringe with an 18 gauge needle, withdraw 2.5 mL thioglycollate from the 50 mL conical centrifuge tube. Remove the 18 gauge needle and replace with a 25 gauge needle.
6. Repeat number 5 above for every mouse to be injected.
7. Inject 2.5 mL thioglycollate intraperitoneally. Avoid puncturing any organs or intestine.
8. Place mice in a clean cage.
9. 4 days after injecting, harvest the foam cells (Protocol PP0000003100).

Author: Donna Reichart

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