

Lipid Sample Preparation

For total fatty acid quantification:

1. Collect 5 ml cell culture (roughly 3×10^6 cells/ml)
2. Vacuum filter cells on [Whatman](#) GF/A 25 mm circles (cat No 1820-025)
3. Place filter with cells in a 1.5 ml screw cap tube
4. Freeze in liquid nitrogen
5. Lyophilize
6. Store at -80°C until ready to ship to Benning Lab
7. Ship on dry ice

For relative fatty acid composition/%TAG assay:

1. Collect 20 ml cell culture (roughly 3×10^6 cells/ml)
2. Centrifuge in clinical centrifuge at setting 5 or 6 for 5 minutes in Falcon tubes
3. Resuspend pellet in 1 ml milli-Q water
4. Transfer to a 1.5 ml screw cap tube
5. Centrifuge at 13.2 krpm for 2 minutes in microcentrifuge at room temperature Discard supernatant
6. Freeze in liquid nitrogen
7. Lyophilize
8. Store at -80°C until ready to ship to Benning Lab
9. Ship on dry ice