

MILK FATTY ACID ANALYSIS
(INCLUDING *TRANS* 18:1 ISOMERS & CONJUGATED LINOLEIC ACID)

Guidelines for collecting and shipping milk samples to the Lock lab

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1. **Prior to shipping samples**, please contact the lab to ensure we will be able to perform the analysis, provide you with proper collection procedures, and be aware your sample(s) will be arriving.
 2. **Ensure that the milk being sampled is well mixed** in order to achieve a representative sample. If possible, send the sample in duplicate in case the analysis needs to be repeated or sample is lost.
 3. Put the sample in a “2-ounce” universal vial (“DHIA milk tube”) with lock top if possible. **Fill to the line** (approximately 35-37 ml). **Do not fill the vial all the way to the top.** (This makes it difficult to mix and obtain a proper sample and vial may pop open when frozen). **Label the vial on the top with appropriate identification, using waterproof marker.** Label can also be placed on sides with adhesive label, but be sure it will not come off if it gets wet. **Collect and send as many samples as arranged with the lab.** Please also **include a packing slip detailing the sample(s) being shipped.**
 4. **Collect and freeze sample(s) before shipping. DO NOT ADD PRESERVATIVE.** Ship samples in a Styrofoam box. Samples can be shipped with blue ice, regular ice or dry ice. Pack samples snugly so vial tops will not pop off.
 5. **Ship samples “Next Day” delivery to:** **Courtney Preseault (FA analysis)**
2270 Anthony Hall
474 S. Shaw Lane
Michigan State University
East Lansing, MI 48824
- Please notify the lab (see “lab contacts” above) once samples have been shipped so that technicians will be expecting the delivery. **Single samples will be run unless the client requests duplicates.**
6. Sample results and an invoice will be sent to the client as soon as possible after analysis. Note: We are a research lab and our analytical system operates 24/7. We run outside samples for fatty acid analysis **once a month.** Occasionally our laboratory samples may need to take precedent for analysis and occasionally the equipment is shut down for repairs. These situations will be infrequent, however, and should they occur we will notify the client if a significant delay is expected.



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