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QMI Method of Sampling Tanker Trucks

In previous newsletters, we have pointed out that many people in the dairy industry believe that the QMI method of sampling from the side or rear of the truck has several advantages:

1. It allows for a more accurate sample (representative and aseptically collected),
2. It helps with receiving bay efficiency by allowing samples to be taken before trucks enter the receiving bay,
3. This method of sampling will help the industry comply with the Bioterrorism Preparedness and Response Act, and
4. It improves sampling safety by allowing samples to be taken from the ground.

At present, this method of sampling is only allowed for component analysis. However, QMI is seeking approval from the National Conference on Interstate Milk Shipments (NCIMS) for this method of sampling for antibiotics, Somatic Cells and Standard Plate Counts (SPC's).

An FDA guided study was conducted to determine the comparability of the QMI method of sampling versus the traditional regulatory approved sampling method (dip sampling).

Fifty data points were collected under the supervision of Chris Thompson, Milk Coordinator for the Division of Regulatory Services at the University of Kentucky.

An additional fifty data points were collected in Minnesota under the supervision of Mary Bolthaus from the Dairy Quality Control Institute (DQCI Services).

These certified laboratories conducted SPC's, Somatic Cell Counts (SCC's) and inhibitory tests on all 50 samples at each location.

The data was submitted to the FDA for statistical evaluation. The FDA found that the data were not statistically different.

In summary, the data suggest that the QMI sampling method is an equivalent and reasonable alternative to the dip sampling method.

Discussions with the FDA indicate that the Laboratory Quality Assurance Branch would recommend approval of the QMI sampling method for tanker trucks.

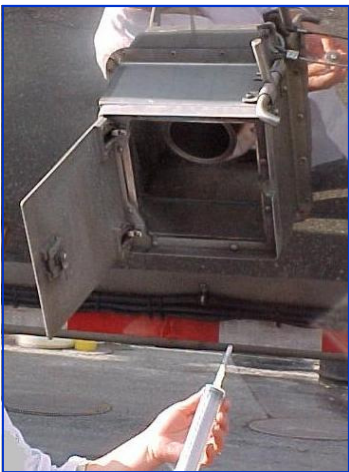
At present, there are a number of approved uses for the QMI method of sampling.

Standard Methods for the Examination of Dairy Products (3.005 and 3.43E) approved the QMI Sampling System for tank and silo sampling. In addition, the QMI method in FDA memo M-I-06-6 Inline Sampling (May 15, 2006) has been approved by the NCIMS for line sampling.

Furthermore, the FDA issued Memorandum M-I-06-12 on August 18, 2006. This Memorandum includes SOP's for collecting samples from farm vertical and horizontal tanks using the Aseptic Sampler and sterile needle procedure (QMI System). These memos are available on our website or by contacting us.

A proposal has been submitted by QMI to the NCIMS Committee requesting action at the meetings scheduled in May on the QMI Sampling System.

QMI will inform its customers of their decision when it becomes available and will post additional information on our website and in upcoming newsletters.





Sampling a Truckload of Stratified Raw Milk

The QMI System is an Accurate Method of Obtaining Samples for Component Analysis

Changes in the way milk is harvested and transported have created sampling challenges. The use of much larger and much longer truck trailers along with direct load harvesting of milk have created a situation which makes obtaining a representative sample quite difficult.

Most people in the dairy industry would agree that milk that has been in the truck for more than 3 hours will stratify even if the truck is moving. Studies by dairy processors on the east coast and in the Midwest have shown that the butterfat and SCC may be as much as 25% higher from a dip (top) sample than from a syringe sample

(bottom). When the milk arrives at the processing plant, it is stratified and accurate sampling is not possible.

Agitation of the milk is not desirable because the oxygen can increase the growth rate of the bacteria and increase the oxidation of milk fat.

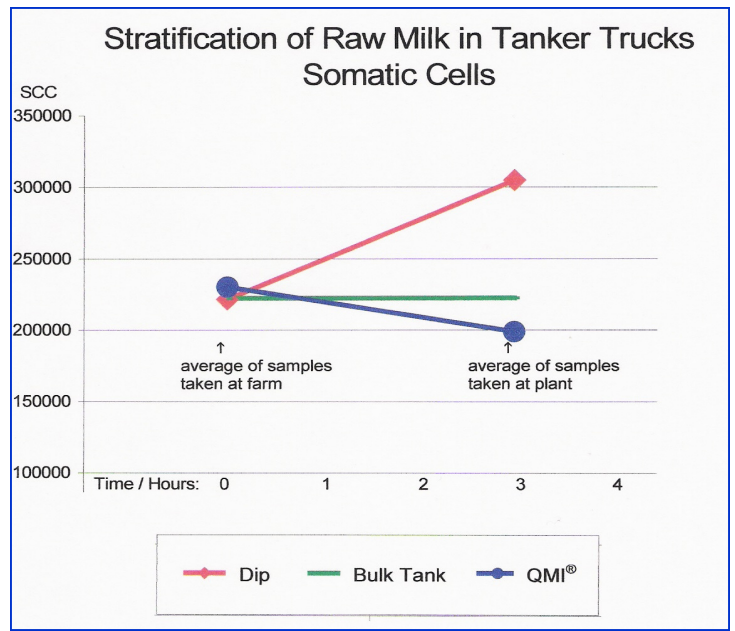
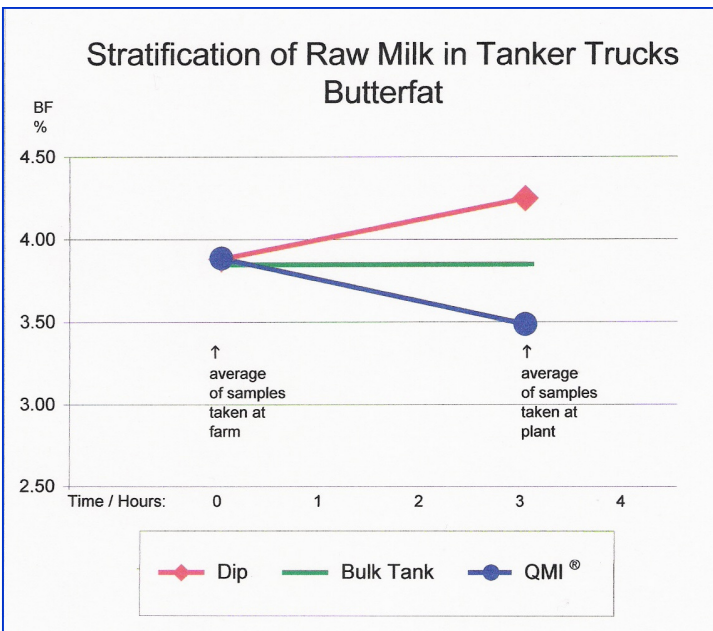
QMI proposes a solution to these problems. Using the QMI Aseptic Sampling Elbow and a QMI Composite Sampling Bag, samples can be taken at the farm for direct load harvesting.

This method has been approved in FDA Memorandum M-I-06-6 Inline Sampling (May 15, 2006).

For trucks arriving at the plant, the QMI Aseptic Sampler positioned after the pump along with a QMI Composite Sampling Bag obtains a representative sample.

At this point, the sample cannot be used for regulatory purposes. However, it is an accurate method of obtaining a sample for component analysis.

To learn more about this method of accurate sampling of stratified milk, please contact QMI.



Data provided by Bob Gilchrist, AgriMark

QMI Introduces Tamper Devices

QMI products have been used in a wide range of industries since 1983. These industries include dairy processing, dairy farm, pharmaceutical, biotechnology, beverage, brewing and other industries that have a need to sample liquid processes. Our products have proven to be valuable tools for many QA/QC programs such as Hazard Analysis Critical Control Point (HACCP) systems.

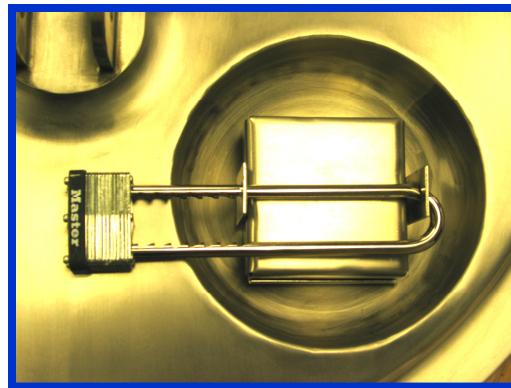
Recently several of our customers have expressed interest in using QMI products in isolated areas such as on over-the-road tankers, isolated piping systems and other less frequently monitored areas. Under these conditions, unwanted injections or product removal could be a concern.

To reduce the risk of tampering or unwanted removal of product, QMI has developed two devices: the QMI Tamper-Evident Device is a white cap that fits over the nut. The blue QMI Security Seal is numbered for easy record keeping within a laboratory facility. The cap cannot be removed unless the Security Seal is cut.



The QMI Tamper-Resistant Device is a stainless cap that locks the nut into place covering the Aseptic Sampler completely. Samples cannot be taken, nor can injections be made, unless the device is unlocked and removed.

If you are interested in learning more about these products, please visit our website or contact QMI for more information.



QMI is committed

to providing the

highest quality

*sampling
products*

available on the

New Website !

QMI launched a new website in April. Our updated site includes past newsletters, updated SOP's, a complete parts list, an FAQ section, news and announcements and many other resources to help our customers become more familiar with our products.



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QMI NEWSLETTER

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Available Resources through QMI

QMI SOP's:

- QMI Standard Operating Procedures for Farms
- QMI Standard Operating Procedures for In-Line Sampling (Direct Load Sampling)
- QMI Standard Operating Procedures for Dairy Plants
- QMI Standard Operating Procedures for the QMI Safe-Septum
- QMI Standard Operating Procedures in Spanish

PowerPoint Presentations:

- QMI Monitoring Microbial Contamination of Dairy Products
- QMI Installation Instructions for Dairy Farms
- QMI Raw Milk Sampling Update
- Heat Resistant Psychrotrophic Bacteria

Various Articles on QMI Product Validation

FDA Memos (M-I-06-6 and M-I-06-12)

Safe-Septum Promotional Video

Safe-Septum Training Video

3A Certificate of Authorization
