

How to be a Payment Laboratory

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Outline

- **Equipment**
- **Operational Procedures**
- **Components Required for Payment in your Area**
- **Regulatory Oversight**
 - **USDA Federal Milk Markets**
 - **State Regulatory Agencies**
 - **Overlapping Oversight**
- **Need for Harmonization of Evaluation Protocols and Performance Criteria**

Equipment

- **Measurement of fat, protein, and lactose by mid-IR – Filter Approach**
 - Generally, the best performance (i.e., minimum MD and SDD) can be achieved using an instrument that uses either Fat B, or Fat B and Fat A using individual reference filters for each component measured. This approach can be done on either an instrument with optical filters or an FTIR that allows selection of “virtual” filters from the full spectra.

Equipment

- **Measurement of fat, protein, and lactose by mid-IR – Full Spectra Approach**
 - For measurement of the main components in milk for payment testing, full spectral calibrations have not been shown to have better performance than the filter based approach using either optical or virtual filters.

Equipment

- **Measurement of total solids and other solids by mid-IR.**
 - **These are just data calculations from the basic values for fat, protein, and lactose. The equations for these calculations used by the Federal Milk Markets have been published.**

Outline

- **Equipment**
- **Operational Procedures**

Operational Procedures

- **Precalibration**
- **Calibration**
- **Pilot Control Samples**

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Components Required for Payment in your Area

- **Fat and Total Solids**
- **Fat, True Protein, and Other Solids**
- **Somatic Cell Count**

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Regulatory Oversight

USDA Federal Milk Markets

Depending on your geographic location and the location of producers that you test for payment, you could be regulated by more than one USDA Federal Milk Market Laboratory.

Example – DairyOne in NYS is regulated by both the Northeast Federal Order and the Federal Order based in Cleveland. Both FMMA offices will check the performance and compliance of that testing lab. The each have a different set of evaluation check samples.

Regulatory Oversight

State Regulatory Agencies

This is regulation is separate from the USDA Federal Milk Markets. If your lab is regulated by a state authority, then there may be a requirement for a testing license for the state. The requirements are different from one state to another. The performance evaluation procedures and compliance requirements may be different than those of the USDA FMMA.

Regulatory Oversight

Overlapping Oversight