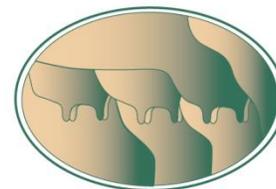


UDDER HEALTH SYSTEMS, INC

4455 S. MERIDIAN RD.

MERIDIAN. ID 83642

LAB 208.922.9505 • 877.398.1360



Total Coliform Screen & Standard Plate Count Tests

Total Coliform Count (TC)

In addition to serving as an indicator of milk quality and food safety, this laboratory test also gives information about the cleanliness of the milk harvesting process. Coliforms can be found in fecal material, water, soil and vegetation. It may contaminate the milk during the milking process, either by accidental intake of fecal material through the vacuum on the milking unit, or inadequate cleanliness of the udder or teats. Coliforms can cause clinical mastitis, if a cow or goat is not currently infected with coliform mastitis, it should not be present in the milk from the udder.

Total Coliform count is measured in colony forming units (CFU) per milliliter (ml) of milk. Udder Health Systems recommends that the *Total Coliforms be lower than 15 CFU per ml*. This is a common regulatory limit for sale of raw milk, in states where it is legal, although some states may allow a higher limit.

Standard Plate Count (SPC)

This test identifies the total number of bacteria per milliliter (ml) of milk. The sample should be taken on milk that has been harvested, strained, cooled and ready to serve or be processed. SPC is valuable to quantify the total number of bacteria that can come from the udder, contamination during milking, unclean milking equipment, unclean storage containers or inefficient cooling.

Udder Health Systems recommends that the client has an *SPC below 5,000 / ml*. If the SPC is below or above the countable range (<2500 CFU/ml or >250,000 CFU/ml), an “estimated” count will be given, indicated by an “E” before the count. (ie. <E 2,500).

Additional Information

Only *one 50 ml sample of milk in a sterile vial* is needed to perform both the SPC and TC tests. If the test results are out of range, further testing of a different type may be necessary to identify the source of contamination. Most Homestead dairy clients will have their milk tested monthly, to monitor the quality of the milk being consumed by their family or sold to the public. Though the information is helpful to assess the quality of the milking and cooling process, it’s important to remember the potential health risks associated with consuming raw milk. Each state has their own raw milk quality standards and laws, which should be investigated.