



# Custom Lab Services

(Somatic Cell Count, Milk Urea Nitrogen & Component Analysis)

## SERVICES AVAILABLE

Producers can have milk samples analysed for:

- 1) Fat and Protein Percentage
- 2) Fat, Protein and Somatic Cell Count (SCC)
- 3) Fat, Protein, Somatic Cell Count (SCC) & Milk Urea Nitrogen (MUN)

## NUMBER OF TESTS

Tests can be purchased one at a time. Producers wanting to test on a more regular basis should consider routine DHI service, which overtime is more economical.

## METER RENTAL

DHI will provide rental meters at a flat rate (see pricing worksheet) for herds requiring meters.

## DELIVERY AND PICK-UP

Meters, sample vials and any other supplies can be picked up from your nearest Customer Service Representative. DHI staff can provide a drop-off and pick-up service at an additional charge based upon total km driven (see pricing worksheet).

## RESULTS

Results are returned via regular mail. Producers wanting a faster turnaround can select courier or fax option for an additional charge. Please ensure all producer information is complete to ensure fast turnaround of results.

## DATA RECORDING

Using the data recording pages, record animal ID (name, ear tag, etc.) and the pre-printed bar code number on the sample vial. If recording cow ID on the sample vial lid, take care to not write over the bar code lines. (We suggest using a RED ball point pen).

## SAMPLING

A sample from each cow is obtained using a meter with a sampler or from a bucket milker. For mechanical meters, mix milk from the meter by pouring milk from flask back and forth from a pitcher 3 times. Mixing milk from a bucket can be done by pouring back and forth from one pail to another 2 times. If you sample 1 milking, fill the vial to the line. If you use 2 milkings, fill the vial 1/3 each milking.

## MILK WEIGHT COLUMN

The data recording pages provide a column to record the milk weight for individual cows. Producers using meters or bucket herds with a scale may wish to record individual milk weights which can be used to calculate each cow's percent SCC contribution of total test. See chart below for example and instructions.

## ENSURING SAMPLE QUALITY

Check all vials to make sure each vial has a preservative pill. If missing, use a pill from one of the extra empty vials. Once milk is collected, gently invert all sample vials several times to ensure the preservative pill is dissolved.  
**Do not shake.**

## How to Calculate Percent SCC Contribution

1. Multiply each cow's SCC value by her milk weight to obtain total cells produced by each cow. Complete for all cows that were sampled.
2. Sum the total cells produced by each cow to obtain total cells produced by all cows tested.
3. Divide each cows total production (step #1) by total cells produced by all cows (step #2) and multiply by 100.

Cow I.D	(Cell Count) x 1000	Milk (kg)	Total Cells x 1000	% Contribution to Herd Test Total
9.....	2,489 .....	28 .....	69,692 (69,692 ÷ 231,088) x 100.....	30%
3.....	2,425 .....	14.....	33,950.....	15%
2.....	2,398 .....	30.....	71,940.....	31%
5.....	1,334 .....	21.....	28,014.....	12%
17.....	1,010 .....	12.....	12,120.....	5%
22.....	854.....	18.....	15,372.....	7%
			<b>231,088</b>	<b>100%</b>





