

# DQCI Services

*Trusted Dairy Laboratory Services  
for more than 50 Years*

## Producer/Patron - Co-op Services

### “Monthly Test Package”

- Payment Testing
- Officials
- Internet Statistical Analysis Reporting

### DQCI Also Provides Services Such As:

- Bulk Tank Analysis
- Antibiotics Testing
- Mastitis Testing
- MUN Testing
- Casein Content
- Microbiology and Chemistry Analysis
- Johnes Testing



**DQCI**  
Services

Division of  
**Diversified  
Laboratory  
Testing** LLC

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## **Patron - Producer Monthly Test Package**

### **Why DQCI?**

#### **Reasons Co-ops Choose DQCI Patron Milk Testing Services:**

**Reason # 1: DQCI Services is an Independent Privately Held Dairy Services Laboratory**

**Reason # 2: DQCI Laboratory's Major Capital Investment and Broad Capabilities in Core Competency - Dairy Testing**

**Reason # 3 Total Operating Cost Reductions Available From DQCI**

**Reason #4: Strengthened Co-Op – Patron Relationships**

**For more details describing the information about each of these reasons, contact us at DQCI,**

## **DQCI Patron-Producer Monthly Test Package Summary:**

1. **Officials:** One Official bacteria count, antibiotic inhibitor, somatic cell count, and cryoscope freeze point (if desired), in a report sent to State, plant, and field reps
2. Daily (each pick up) **payment testing**. Samples run on Foss or Bentley for component analysis, and records sent to Co-Op or Dairy Plant, as data strings or in report formats.
3. Monthly, or semi-monthly **field rep reports**, including, if desired, internet based electronic DQCI SAR reports (Statistical Analysis Reports)

Note:

Customizable per sample report data options include: Farm Name, Producer #, Sample date, Tank #, Sequence #, % Fat, % True Protein, % Other Solids, Somatic Cell Count, Freeze Point, MUN, Antibiotic Inhibitor, (% Casein available on request)

4. **Sample pick up** service (some freight extra)
5. **Supplies:** Bar Coded Vial Labels, Red Tag Specials Labels, Sample Bags as well as Shipment Coolers furnished.

**One Low Monthly Package Price  
per Patron-Producer**

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## **Producer Monthly Test Package Details:**

### **Monthly Official State Testing:**

DQCI will test samples and provide test results for all of the Co-op/Dairy producer patrons each month and generate the Official State Test Reports displaying results.

In addition, DQCI will automatically forward, at DQCI's costs, a copy of the Official Reports to up to 4 locations: one copy to the State Sanitarian; one to the State Department of Agriculture, one copy for the field representative, and one copy for the Co-op/Dairy plant location.

The Official Report will include for each producer patron: the hauler # if desired, the Patron # and name, date, the sample temperature and the results of the following laboratory tests:

- Total Bacteria Count
- Electronic Somatic Cell Count
- Antibiotic / Inhibitor Result
- (Cryoscope - optional – only if requested for inclusion by Co-op/Dairy)

### **Daily Payment Testing:**

DQCI will test all patron samples submitted on behalf of the Co-op/Dairy/Plant, and will provide test results including fat, protein, other solids, lactose, and electronic somatic cell count.

DQCI will also provide the following data results on most samples, at no additional charge: **MUN (Milk Urea Nitrogen), and % water or freeze point depression.** DQCI will usually have patron sample test results available and transmitted to the Co-op/Dairy IT systems by the 2nd working day from sample receipt. (Casein results are an extra charge.)

DQCI will **provide at no additional charge** printed bar code labels, zip-lock plastic bags for inclusion of sample vials in the shipping coolers and shipment coolers for sample transportation to DQCI. DQCI also will provide rolls of printed "Red Tag" special testing request order stickers for special testing requests on designated samples. (Red Tag special request testing is an extra charge)

***Courier Pick Up - Geographic Coverage Area:  
Primarily Upper Midwest Milk Marketing Area  
Federal Order Area # 30 - Minnesota, Wisconsin,  
Iowa, N. Dakota, S. Dakota, Illinois***

## **S. A. R. Electronic Results Reporting:**

DQCI also offers the Co-op/Dairy/Plant access to the DQCI SAR Report, (Statistical Analysis Report), which organizes test data individually by producer throughout the month, and averages each result for the month.

The Co-op/Dairy can choose to access SAR securely, and also **allow field reps to internet access SAR securely for the producer results in their area of responsibility 24/7**. SAR users are able to generate their own specialized analytical reports and download to MS Excel. In addition DQCI will provide, at no additional charge, printed bar code sticker sets for patron samples and milk tickets, as well as load samples and tickets.

### **Load Testing:**

Load tests are completed daily as samples are received. The test includes results for Electronic Somatic Cell Counts, Fat, Protein, Lactose etc. Load Test barcode stickers will be printed and provided as described in above, at no additional charge.

Results of load tests are available on S.A.R or can be transmitted by fax or electronically to Co-op/Dairy IT system, with a target of 2 working days after sample receipt.

Shipment of Load samples to DQCI can be included with the transportation of patron samples from each of the courier pick up locations. (Load tests are an extra charge.) (% Casein results are available on loads.)

### **Sediment Testing:**

DQCI will, if requested, conduct Sediment tests on the patron's "official sample" once per month. A printed monthly Sediment Report will be mailed to the Co-op/ Dairy near the end of each month. Actual Sediment test cards will be bagged and sent by return DQCI cooler to the specified Co-op/Dairy location if desired. (Extra sediment test results are an extra charge.)

## Other Analyses Available

**Direct Micro Count (DMC):** Direct microscopic count examination of stained preparation of milk, or certain other dairy products, to identify and enumerate the number of bacterial clumps present

**Direct Microscopic Somatic Count (DMSCC):** Direct microscopic count of somatic cells per milliliter in a milk sample utilizing “SMEDP”, 17th edition.

**4-Bact Analysis Microbiology Test:** Raw milk quality testing that includes microbiological assays where the same sample is plated for Coliform, Aerobic plate count, PI (pre-incubated) count and LPC (Lab Pasteurized count)

**Standard Plate Count (SPC):** Aerobic plate count of total colony forming units of bacteria per milliliter or gram of raw, processed liquid and dry dairy products utilizing “SMEDP” 17th edition.

**Lab Pasteurized Count (LPC):** Raw milk in test tubes heated to 62.8C +/- 0.5C, survivors counted by standard plate count method utilizing “SMEDP” 17th edition.

**Pre-Inc Plate Loop Count (PI):** Raw milk sample undergoes preliminary incubation at 21 degrees Celsius for 18 hours before analysis to stimulate the growth of psychrotrophic organisms and subsequently a Plate Loop Count (PLC). Is performed utilizing “SMEDP” 17th edition.

**ESCC - Sheep Milk:** Electronic somatic cell count on Raw Sheep Milk

**Goat - Green Stain DMSCC:** Direct microscopic examination of Raw Goat Milk using differential pyronin-y methyl green stain. Goat somatic cells will be a different color than epithelial cells. Only somatic cells are counted. NCIMS confirmatory test for Raw Goat Milk somatic cells.

**Mastitis Culture Analysis (cow, sheep, goat) :** Examination of mingled whole cow or individual quarter samples for presence of contagious and environmental bacteria.

**Sensitivity Test -** Test for sensitivity/resistance to antibiotics used in treatment of mastitis infections using the Kirby Bauer (agar diffusion) method.

## Other Analyses Available

**Johnes Culture Test:** Fecal culture testing for Johnes (or Johnes Elisa test)

**Bedding Culture:** Analysis of bedding materials for presence of environmental microorganism contaminants.

**Coliform :** Well Water Test: NCIMS approved procedures for farm wells, farm chiller, or glycol chiller samples. Source waters (wells) are presence / absence methods. Chiller and glycol water supplies are done by MPN

**Mycoplasma Culture Analysis:** Cultivation and selective isolation of mycoplasma

**Yeast and Mold Plate Analysis:** Determination of yeast and mold cell forming colonies in a dairy sample under specified conditions utilizing “SMEDP” 17th edition.

### Antibiotic Testing

(Many Other Tests Available, call for information)

\* SMEDP = “Standard Methods for the Examination of Dairy Products” 17th edition

## Custom Vial Bar Code Label Printing Services

DQCI, as a separate service, custom prints milk sample vial labels on rolls for Producer/Co-ops across the USA.

Multiple formats, with single to triplicate labels - (vial, load ticket and record label), or quad labels.

**Call DQCI for a quote on your bar code label needs.**

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