Draw	g Residue Testing – Program Req	luiraments

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WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION
Fail 2024 Workshop

# NCIMS REQUIREMENTS

Every load of raw milk that is received in this country MUST be tested for Beta-lactam\* drug residues.

\* Beta Lactam drugs are members of the Penicillin family of drugs.



# WHAT ABOUT OTHER TESTS?

- Sulfonamides, Tetracycline, Chloramphenicol, Aflatoxin...
- ${\tt m}{\tt Currently},$  you are not required by NCIMS or Wisconsin rules to test for any of these.

# **BUT**

If you test for a chemical that does not belong in the milk and get a positive test result, you must treat the milk as adulterated under Wisconsin law.

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- I. Contact the LEOs for the forms you need:
  - > datcpleo@wisconsin.gov
- 2. Go on the DATCP website (for Appendix N forms only):
  - > https://datcp.wi.gov/Pages/Programs\_Services/DairyProcessors.aspx
- 3. Go to the NCIMS website for all forms:
  - > https://ncims.org/forms/

All PDF files can be downloaded and printed.



# **FACILITY REQUIREMENTS**

• Every facility that receives raw milk must be approved to do Beta lactam drug residue testing on the milk they receive.

### or

 The facility must have an arrangement, pre-approved by DATCP, to have its milk tested elsewhere.



# **FACILITY APPROVAL**

To be approved to do drug residue testing, a facility must:

- Have at least one approved Industry Supervisor.
- •Meet the requirements of the Beta lactam drug residue testing program.



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To meet the requirements of the Beta lactam drug residue testing program, a facility using a test that uses a **reader and printer** must have one Industry Supervisor submit annually:

- □Internal Audit showing that their facility meets the requirements of the Beta lactam drug residue testing program.
- ■Document training and testing of all analysts at the facility.



# **FACILITY APPROVAL**

To meet the requirements of the Beta lactam drug residue testing program, a facility using a test that is **visually read** must:

- Go through an initial on-site evaluation (all analysts). If you hire a new analyst, they must also have an on-site evaluation before testing.
- Analysts must run and pass state split samples.
- One Industry Supervisor must submit annually:
- □ Internal Audit showing that their facility meets the requirements of the Beta lactam drug residue testing program annually.
- Documentation of training of all analysts at the facility.



# **INDUSTRY SUPERVISORS**

As an Industry Supervisor, it will be your responsibility to show that your facility is meeting the requirements of the program:

- ■State requirements:
- •Internal audit as well as training and testing.
- □2400 series forms:
- Testing records (every load and controls).
- Quality control (follow 2400 series forms).



STATE REQUIREMENTS	
Internal Audit  Must be done annually by an Industry Supervisor using the 2400 series forms.	
Training and testing	
<ul> <li>Analysts must be trained by an Industry Supervisor on the test procedure per 2400 series forms and analysts must test unknowns annually.</li> </ul>	
Confirmation	
Facility must have a written agreement with a certified lab that will do their confirmation testing.  WECCHANDEDMATTERS OF AGRICULTURE TRADE AND COMMANDE MOTIFICION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICATION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICATION  WITH THE PROPERTY OF AGRICULTURE TRADE AND COMMANDE MOTIFICATION  WITH THE PROPERTY OF THE PROP	
HOLLMON LANK FOR UP AND LAUGH, SAUGH AND CONCARD ROTHERDS	-
STATE REQUIREMENTS	
Training of Industry Analysts  • Must train all personnel who test incoming loads of milk (screen) initially and annually.	
Training includes:	
<ul><li>2400 series General Requirements</li><li>2400 series for test kits that you are using</li></ul>	
■ All QC forms used at your facility	
■ Positive Drug Residue Report form ■ Tanker Disposal Report	
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# STATE REQUIREMENTS

Annual testing of Industry Analysts

- Analysts using a reader/printer must test at least three samples (one positive, one negative, third positive or negative).
  - Must correctly identify all three samples
  - Samples can be made in-house.
- Analysts using a visually read test must test DATCP-provided split samples.
  - Eight samples must correctly identify at least seven samples



# **INDUSTRY ANALYSTS (IA)**

Analysts trained and tested in this manner can:

- Screen loads of milk.
- Do verification of initial positive tanker.
  - Duplicate testing with positive and negative controls.

# They CANNOT:

- Confirm positive loads.
- Test producer samples.
- Clear a positive producer.
- Train other analysts.



# **INDUSTRY SUPERVISORS (IS)**

Industry Supervisors that are not certified can:

- Screen loads of milk.
- Do verification of initial positive tanker.
  - Duplicate testing with positive and negative controls.
- Train other analysts.

They CANNOT:

- Confirm positive loads.
- Test producer samples.
- Clear a positive producer.



# ONLY **CERTIFIED** ANALYSTS (CA OR CIS)

# CAN:

- Confirm positive loads.
- Test producer samples.
- Clear a positive producer.

How do I know if I'm certified?

- Is the lab you are
- Have you gone

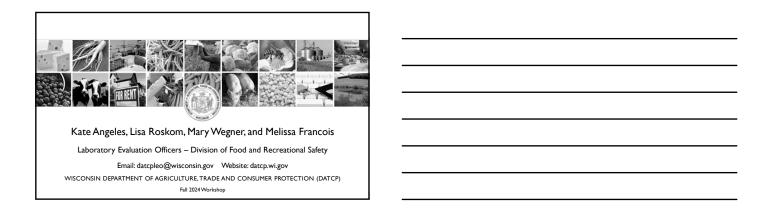
■ Do you have a license as a certified analyst?

ertified?
Is the lab you are
working at certified?
Have you gone
through an on-site
evaluation?

YOU CAN BE APPROYED
AS AN INDUSTRY
SUPERVISOR (IS), BUT
YOU WILL NOT BE A
CERTIFIED INDUSTRY
SUPERVISOR (or a CIS)
IF YOU DO NOT MEET
THESE CRITERIA



			Train	Test**		Unknown/P7	Samples	Eval	aation
	Screen Loads	Confirm Loads	Industry Analyst(s) (IA)	Industry Analyst(s) (IA)	Attend IS Workshop	In-house (3 unknowns)	State Provided	Internal Audit	LEO On-site
Industry Supervisor (IS) doing Reader Printer Test	X		Initial & Annual	Initial & Annual	Biennial			Annual	
Industry Supervisor (IS) doing Visual Read Test	X.		Initial & Annual		Biennial		Annual	Annual	Initial
$\frac{\textbf{Certifled}}{(\text{CIS})} \\ \text{Industry Supervisor}$	X	X	Initial & Annual	Initial & Annual	Biennial		Annual		Biennial
Industry Analyst (IA) doing Reader Printer Test	X					Initial & Annual			
Industry Analyst (IA) doing Visual Read Test	X.						Annual		Initial
Certified Analyst (CA)	X	X					Annual		Biennial
	ervisor (I: gloads of dustry Sup	8) or Indust milk. servisor (CI	ry (IA) doing a	Visual Read T	est must pass ng Reader Pr Printer test	inter test (IS) ma	ist create at l		wn
Visual Read Test  Delvotest P m		erunea ma		Charm SL, 3 S Idexx SNAP E	L3. BL30SE	Reader Printer To	<u>est</u> rm Tetra, Su	lfa, TRIO	





Drug Residue Testing – 2400 Series Forms - General Requirements

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WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION (DATCP)

Fall 2024 Workshop

# WORK AREA AND STORAGE

Ample work and storage space

■ Areas neat, clean, and orderly

Well ventilated and temperature controlled

- $\ensuremath{\text{\textbf{g}}}$  Temperature is specified by test kit manufacturer.
- Humidity is a concern.

Adequate lighting (>50 FC, 100 FC suggested)

- □ Placement is important.
- □ Analysts must not work in their own shadow.



# THERMOMETERS OR TEMPERATURE MEASURING DEVICES

NIST traceable thermometer ("reference" thermometer)

- Must come with certificate (showing calibration at 3 temperature points or more)
- Must be checked at ice point annually
- □ Must cover appropriate range of temperatures measured
- Must be graduated in 1.0°C increments
- Certified labs graduated in 0.5°C increments



# THERMOMETERS OR TEMPERATURE MEASURING DEVICES

Working thermometers ("in use" thermometers)

Sample, incubator, refrigerator, and freezer

Must be checked against NIST thermometer

- Annually (within 12-month period)
- At temperature of use
- Accurate to ± 1.0°C
- All results documented (date, thermometer IDs, certified thermometer reading, working thermometer reading, correction factor, analyst ID)
- □ Tagged with ID, date of check, temperature checked at, and correction factor
- No dial thermometers



# THERMOMETERS OR TEMPERATURE MEASURING DEVICES

May be calibrated at another location

- Testing done annually
- □ Documentation of the calibration check must be kept at your lab.
- Thermometers tagged with ID, date of check, temperature checked at, and correction factor
- Lab doing calibration should send documentation of their NIST



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# TEMPERATURE MONITORING SYSTEMS

Continuous temperature monitoring electronic monitoring or chart recorder (App N - refrigeration)

- System must record temperature at same or greater frequency as required for MIG/AIG thermometers.
- ${\tt n}$  An alert can be set to register when out of acceptable temperature range.
- ${\tt n}$  If temperature is out of range more than two hours, document corrective action taken.
- Backup power source for system in case of power failure
- ${\tt \tiny m}$  Records available and accessible for auditing
- □ Weekly comparisons against accurate thermometer (chart recorder)
- Annual accuracy check required (all systems)



# REFRIGERATION

Size appropriate for workload

■ Too small impedes proper air flow

Maintains samples at 0.0 to 4.5°C

Controls, media and reagents stored

■ No food or drink stored

Temperature recorded once a day

- □ Certified labs twice per day AM and PM

Thermometers on top and bottom shelves of use Thermometer bulb/sensor immersed in liquid



# FREEZER

- Size appropriate for work load
- Maintains temperature of -15.0°C or colder
- Controls, media and reagents stored
- $_{\circ}$  No food or drink stored
- Temperature recorded once a day
  - · Certified labs twice per day AM and PM
  - $_{\circ}$  Corrective action noted if temperature unacceptable.
- Thermometer bulb submerged in anti-freeze liquid



# PIPETTORS

- Fixed volume
- Etched or imprinted with identification #
- Proper tips used with pipettor
  - Tips do not need to be sterile (single use).
  - Big enough to allow air space



# **PIPETTORS**

Accuracy checked every six months

- On-site or at another location (maintain records)
- Tag pipettor with date accuracy check done
- 10 weighings; average must be within ±5% of specified volume
- Use deionized water at room temperature.

Recommend a "spare" (certified labs).



# BALANCE/SCALE

- Only needed if checking the accuracy of a fixed volume pipettor in-house
- Sensitivity appropriate to use (0.001g sensitivity appropriate in most instances)
- Checked monthly with ASTM 1,2,3 or Class S or S1 weights (weights need certificate).
   Within 30 days prior to pipettor accuracy checks
- · Checked annually by a qualified service representative
- · Records maintained



# TANKER SAMPLE REQUIREMENTS

- I. Take and record the temperature of tanker.
- **2.** Collect a representative sample for antibiotic testing.
- Record time of sample collection.
- Temperature control (TC) is required if not tested "without delay".
- 3. Transport samples to lab.
- Protect samples from contamination.
- Protect samples from temp abuse.
- 4. Test samples promptly.
  - ${\tt m}$  Record date/time at start of testing.
  - ${\tt m}$  Check and record temperature of TC.
  - Or use temperature of tanker if tested "without delay."
  - Sample temperature needs to be documented in °C.



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# PRODUCER TRACE BACK SAMPLES



- Samples should be accompanied by hauler TC (pilot) sample to determine temperature of samples.
- · Samples should not be leaking.
- Sample tops should not be in direct contact with ice.
- Samples should not be submerged or floating in water/ice.
- Samples not meeting these requirements may still be tested.
  - □ Condition of samples must be documented.



# PERFORMANCE TESTING

- Positive and negative controls run on each new lot of test kits before the lot is used (QC or suitability).
- Recommend testing upon receipt.
- Positive and negative controls run each day that testing is done.
- Reader calibrator strips/check devices run each day testing is performed.
- Rotate analysts who do performance checks.
- Maintain records for all performance testing.





# INITIAL TESTING OF TANKER SAMPLE

Documentation must show:

- Lab ID
- Test method used
- Sample ID
- Date and time testing started
- Test result
- Numeric value (Charm/SNAP) or color (Delvo)
- □Interpretation (NF or POS)
- Analyst ID





# VERIFICATION OF INITIAL POSITIVE

Same analyst tests the same sample in duplicate with positive and negative controls using the same test kit.

Positive and negative controls must work properly.

- ${\bf n}$  If both duplicates of the sample are negative, the milk may be received (reported as NF).
- ${\tt m}$  If one or both of duplicate samples test positive, the tanker is presumptive positive.
- $\scriptstyle \blacksquare$  All testing to be documented.

Start filling out positive drug residue report form (for presumptive positive load sample). End of testing for screening analyst.



# CONFIRMATION OF PRESUMPTIVE POSITIVE

- Original tanker load and producer samples must be forwarded to a certified lab that uses an equivalent test method as the screening lab.
- If certified lab confirms load as negative, milk may be used.
- If certified lab confirms load as positive, milk must be disposed of and producer samples must be tested.
- Producer samples must be tested at the certified lab using the same test that was used to confirm the load as positive.
- All load confirmation testing and producer traceback testing is to be documented.



# APPENDIX N FLOWCHART Appendix N Testing Flowchart Testing Done by Trained Screening Lab. \*\*Presumptive Positive to Verified Positive Load may be used With plous and neg. Procure Sample in digulate results: Not Found Load may be used With plous and neg. Procure Sample in digulate results: Not Found Load may be used With plous and neg. Procure Sample in digulated Load may be used \*\*If Bloot Sections is fired PDRSF and notify DATC With Jabours\*\* \*\*If Bloot Sections is for the Screening/Industry Analyst \*\*Presumptive Positive Load Positive Load Positive Load With Positive Load Industry Analyst \*\*Industry Analyst \*\*Notify DATCP within two hours. \*\*Transfer Load/Producer Samples to Certified Load For testing Load For te

# APPENDIX N FLOWCHART (CONTINUED) Translet lead/producer samples to Certified the for teste Certified the for teste Certified the for teste Result: Positive Result: Positive Testing Done by Certified Analyst Confirmed Done by Certified Analyst Testing Done by Certified Analyst Confirmed Done Out Testing Done by Certified Analyst Testing Done by Certified Analyst Confirmed Done Testing Done by Certified Analyst Confirmed Positive Load descriptions as and business days Fig. 12-715-339-338-07 Mail: WOATCP. DRFS 738 W Claimeness Analyst Certified IS Notify DATCP within three business days.

# DIRECT MILK SHIPMENTS REJECTED FOR DRUG RESIDUE

# Collecting a clearing sample at a licensed dairy plant

- Sample taken at facility with a lab using the same or equivalent test.  $\ensuremath{\P}$
- Sampling shall be done in accordance with ATCP 65.72(3)(c).
- Direct loads that are shipped to be tested as a clearing sample shall be shipped no more than 24 hours after the initial confirmed positive.
- Clearing samples tested within 24 hours may be "offered for sale" when screened negative.
- Loads shipped after 24 hours that test positive will be considered a second violation under ATCP 65.922(4).





# DIRECT MILK SHIPMENTS REJECTED FOR DRUG RESIDUE

Collecting a clearing sample when approved on the farm

- arm MILK OO
- Sampled in accordance with ATCP 82.12(2m)
- From a properly agitated tanker that is located in a suitable shelter adjacent to, but not in the milkhouse ("suitable shelter" shall meet milkhouse standards)
- Using a division approved inline milk sampling device installed on the milk pipeline.



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Report a positive result interpretation as POS.

■ Not just a + sign (contrary to 2400 forms)

Report a negative result interpretation as NF (for "not found").

Keep all written records and printouts for at least two years.

Legibility of records is critical.

- ■No write-overs or whiteout
- If you make a mistake, strike out the incorrect information with a single line (example), initial it, and write correct info next to it.



# POSITIVE DRUG RESIDUE REPORT FORM

- Use most current version (10/2017).
- Section I and II to be filled out by screening lab.
- Original copy must go to certified lab doing the load confirmation (screening lab keep a copy).
- Certified lab completes sections III (load confirmation test data) and V (positive producer test data).
- Section IV disposition of milk
- Section VI negative recheck (producer) to resume shipping
- · Forward completed form to DATCP.



# MISCELLANEOUS

- Heater block temperature to be documented each day of testing (thermometer to be in block when testing)
- If using Charm EZ reader for incubating test strips, the EZ printout is acceptable for the daily temperature documentation.
  - $\bullet$  Charm thermometer needed for annual accuracy check of the Charm EZ incubator/reader unit.
- · Heater block needs to be level.
- Positive and negative control information to be documented
  - Positive control lot #, date made, expiration date
  - Negative control source, date tested, expiration date



# MISCELLANEOUS

- · Current safety data sheets
  - Test kits and positive control
- Current 2400 series forms (needed for annual internal audit)
- Tanker Disposal form
- Analyst Training Report form (send to LEOs)
  - Annual training/testing of analysts
  - Within 30 days, any addition/removal of analysts





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# Drug Residue Testing – NCIMS Approved Drug Residue Tests

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WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION

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# COVERED IN THIS PRESENTATION:

- · Types of tests approved
- Basic requirements for each test
- Basic procedures for each test
- Tests approved for other species
- Changes in the 2400 forms



NOTE: This presentation is a basic overview. Refer to the NCIMS 2400 forms for more specific information on each test.



# CONFIRMATION WITH EQUIVALENT TESTS

- If you confirm a screened positive with an equivalent test, it must detect the same drugs at or below the safe level.
- Be aware that two tests that detect the same drug may not detect it at the same level.
- A confirming test that detects more drugs than the screening test can be used.
  - As long as it detects the same drugs as the screening test at or below the safe level



# HOT OFF THE PRESS!!!!!



### BIG NEWS!

- ALL 2400 forms have been updated with new footers.
- Removed "FDA" in footer as the NCIMS Lab Committee now revises all the forms.
- All labs need to replace their old forms with these new forms

# Not so big news:

 Only one form has had more changes than just the revision date. This is the 2400 form for the Charm SL, Charm 3 SL-3, and Charm BL30SEC tests.

# HOWEVER - (BIG NEWS!!):

- This 2400 form has several MAJOR updates (more on this later)
- These changes only apply to the tests in this form.

FORM NCIMS 2400n Appendix N - General Requirements Rev. 03/2024



# Just learnt that people around the world consume the milk of goats, water buffalo, llamas, reindeer, horses, sheep, camels, and yaks...

# NCIMS TESTS APPROVED FOR GOAT MILK

- CHARM SL
- CHARM II
- Sequential Assay
- CHARM BsDA
- Delvotest P
- Delvo 5-Pack
- IDEXX New SNAP





# NCIMS APPROVED TESTS FOR SHEEP MILK

· CHARM SL



Sheep milk may be frozen prior to testing.

- Sample must be taken prior to freezing.
- Sample and container frozen and  $\stackrel{\cdot}{\text{maintained}}$  together for up to 60 days
- Sample thawed and tested within 24 hours
- Frozen sheep milk sample(s) and controls must be centrifuged per procedure before running the assay.



# NCIMS APPROVED TESTS



Water Buffalo milk:

- CHARM SL
- Delvotest® P

Camel milk:

■IDEXX New SNAP



TEST KITS APPROVED FOR APPENDIX N TESTING

(NOTE:THE CHARM FLUSLBL FLUNIXIN AND BETA-LACTAM ASSAY HAS BEEN DISCONTINUED)

# Commonly Used Tests

- Charm SL
- IDEXX SNAP
- · Charm 3 SL-3 Delvo 5 Pack
- Charm BL30SEC Delvotest P
- · Charm SULF
- Charm Tetracycline-SL
- Charm TRIO



# **Uncommonly Used Tests**

- · Charm BsDA
- IDEXX Tetracycline
- Charm II Beta-
- Charm II Non-
- Lactam Assays:
- Beta-Lactam Assays:
- Competitive Sequential
- Sulfonamide
- Quantitative
- Tetracycline



# VISUAL READ TESTS

- · Charm BsDA
- Delvotest® P Mini
- Delvotest® 5-Pack

All tests use Geobacillus stearothermophilus spores and take about  $2\frac{1}{2}$  to 3 hours for the spores to germinate at  $64^{\circ}$ C. Presence of inhibitors will kill spores in seeded medium.



# VISUAL READ TESTS

Visual Read tests are recognized to detect:

- Penicillin
- Amoxicillin
- Ampicillin
- Cepapharin
- May also be able to detect other drugs as well, but not consistently



# VISUAL READ TESTS

- Confirmation requires samples and controls heated in a 82±2°C water bath for two minutes (TC required), tested in duplicate.
- · Beta-lactamase:
  - $\bullet$  Optional for verification of the initial positive in screening sites  $_{\circ}$  However, if used, results must be reported.
  - Required for Appendix N confirmation
- Refer to 2400 form for reporting details.



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### Delvotest P Mini

■ Individual test wells detect Beta-lactams.



# Delvotest 5 Pack

■ 96-well blocks can be broken into strips of 16 wells. Usually used for Section 6 (milk quality) testing due to minimum volume of wells necessary per use.

# **DELVOTEST REQUIREMENTS**

- Room temperature range for testing 16-27°C (61-81°F)
- · Heater block temperature:
- 64±1°C for Delvo P Mini
- 64±2°C for Delvo 5-Pack
- Nutrient tablets maintained in original opened bottle at room temperature with desiccant enclosed (mark with date opened).
   Discard remaining tablets when last ampoule/well used.
- Kits stored at 0-15°C.
- Beta-lactamase instructions now refer to manufacturer for directions on use, due to multiple manufacturers.

# DELVOTEST PROCEDURE

- Add one tablet to each labeled ampoule/well. Make sure nutrient tablets are touching the media.
- Add 100µL mixed sample.
- · Seal Delvotest 5 Pack wells with provided sealing strips.
- Incubate at 64°C for the time period specified by the manufacturer (about 2½ hours). Controls must show proper color reactions.
- Ampoules yellow or yellow/purple after incubation are negative (NF).
- Ampoules **purple** are presumptive positive and must be confirmed with heating step.
- After heating, any **yellow** in the ampoule/well is negative (Not Found).



# COMMON TESTS USING A READER/PRINTER - BETA LACTAM ASSAYS:

- •Charm Sciences
  - Charm SL
  - Charm 3 SL-3
- •Idexx New SNAP®
- Charm BL30SEC
- Charm TRIO



# ALL CHARM TEST STRIP ASSAYS SHARE THESE SAME REQUIREMENTS:

- · Charm SL
- Incubator temperature 56±1°C
- Charm 3 SL-3
- Charm BL30SEC
- Negative control -600 or more negative
- Charm SULF
- Positive control +400 or more positive
- Charm Tetracycline-SL
- Charm TRIO



# BASIC PROCEDURE FOR CHARM TEST STRIP ASSAYS

- I. Take out test strips.
  - ı. As needed.
  - 2. Or store extras in a dry, labeled container at room temperature.
  - 1. Dispose of unused test strips at the end of the day.
- 2. Label each test strip, avoid crushing sample compartment.
- 3. Mix sample, pipette within three minutes.



# BASIC PROCEDURE FOR CHARM TEST STRIP ASSAYS (CONT.)

- 4. Place first strip in incubator.
- 5. Peel strip cover back.
- 6. Pipette sample (avoid foam and bubbles).
  - i. With the pipettor/pipet vertical, slowly dispense into sample compartment.
- 7. Seal strip and repeat for next sample.



# BASIC PROCEDURE FOR CHARM TEST STRIP ASSAYS (CONT.)

- All samples completed within test kit time frames after placing first strip in incubator.
- Close and latch incubator cover, start timer.
- Total time of incubation as per test kit.
- Hold strips vertically if not reading immediately.
- Read within time specified per test kit.



# CHARM EZ INCUBATE AND READ PROCEDURE

Charm EZ Reader automatically sets channel and incubation temperature when strip is inserted.

- Mix sample, pipette within three minutes.
- Place strip in EZ Reader.
- Peel strip cover back.
- Pipette sample (avoid foam and bubbles).
- · With the pipettor/pipet vertical, slowly dispense into sample compartment.
- Seal strip.
- Close door to begin test.
- EZ Reader automatically prompts for further testing when positive.



# CHARM EZ READER

• Charm is replacing old ROSA (and Pearl) readers with the EZ reader if the ROSA stops working.



- Is considered an equivalent (not the same) reader as the ROSA and Pearl readers.
- ■Switching between readers is not allowed within a testing process (verification, load confirmation, etc.) when using both readers at a facility.



# **CHARM EZ READER**

If you wish to switch modes between "Read Only" and "Incubate and Read", you will first need to send the reader to Charm Sciences so they can change the mode and recalibrate the reader.





# CHANGES TO THE CHARM SL/3 SL-3/BL30SEC 2400 FORM

- New EZ-Protect Reader is included on form (but not available yet).
- Removed "EZ Compatible Strips" statement since all strips are now EZ compatible.
- SL-3 strips can now be shipped unrefrigerated if received within seven days.
  - · Over seven days must be refrigerated
- A few wording updates/clarifications





# CHANGES TO THE CHARM SL/3 SL-3/BL30SEC 2400 FORM NEGATIVE CONTROL QUALIFIER HAS BEEN ADDED

- ONLY approved for Charm SL, Charm 3 SL-3, and Charm BL30SEC tests.
- · No other tests can use this option.
- Other Charm SL-type tests to be approved to use the NCQ soon.
- Charm Freeze Dried Negative Control Qualifier (NCQ)
- Can be used if no previously tested negative control milk is available for use
- Basic procedure (see 2400 form for specifics):
- Rehydrate Negative Control Qualifier.
- 2. Qualify raw milk sample as Negative Control.
- Test NCQ and raw milk twice (all results ≤ -600) and compare average to see if raw milk sample can be used as a Negative Control.



### **CHARM SL**

- Detects five of six Beta-lactams using ROSA Reader VI.03 or higher.
- · Centrifuge required if using frozen controls.
  - After slowly thawing controls, centrifuge 3 minutes and cool.
  - Test portion below fat layer without mixing.
- Testing procedure specifications:
  - □ Close lid within 2 minutes of placing first strip in incubator.
  - ${\tt m}\, {\sf Total}$  incubation time: 8 minutes, 9 minutes MAXIMUM.
  - Read within 5 minutes.

# CHARM 3 SL-3

- Detects all six Beta-lactams.
- ROSA Pearl Reader V3.00 or higher.
- Due to tight time frames of test, use an extra timer when running multiple samples to maintain time limits.
  - Testing procedure specifications:
  - $\bullet$  Close lid within 1 minute, 15 seconds of placing first strip in incubator.
  - Total incubation time: 3 minutes.
    - 3 minutes, 30 seconds MAXIMUM.
  - Read within 3 minutes.





# CHARM BL30SEC

- · Detects all six Beta-lactams.
- Testing procedure specifications:
  - •EZ Reader in incubate and read mode required for this test.



# **CHARM TRIO**

- Detects Beta-lactams, Sulfonamides, and Tetracyclines.
  - Confirmation must be performed with separate drug-specific tests.
  - Tetracycline must be confirmed with Charm TET SL test (dilution confirmation).
- Must read with EZ Reader.
- EZ Reader must be in "Read Only" mode for Verification step



# CHARM TRIO REQUIREMENTS

- Can initially screen samples, and verify in duplicate with TRIO for BL and Sulfa. However, ANY positives in verification step must be confirmed with individual tests.
- Confirmation procedure must run each drug separately (using drug-specific tests – not Charm TRIO).
- Tetracycline: Verification and confirmation tests are diluted.
- Beta-lactam test picks up all six BL drugs, so must be confirmed with an equivalent test.
- Positive control contains all three drugs.
- Negative control must be cleared on all three drugs.



# CHARM TRIO PROCEDURE

- Testing procedure specifications:
  - Close lid within 90 seconds of placing first strip in incubator.
  - Total incubation time: 3 minutes, 4 minutes MAXIMUM.
  - Read within 3 minutes.
- EZ Reader will indicate what drug line(s) is(are) causing a positive.
  - Follow procedure in 2400 form for each drug's verification and confirmation step.
  - If duplicate testing detects drugs other than the drugs detected on the initial test, redo verification step for new drug that was detected.



# IDEXX NEW SNAP®



- Individual test kits for use with reader.
- Testing area must be well lit.
- Testing complete in about 10 minutes.



# **IDEXX NEW SNAP REQUIREMENTS**

- Heater Block 45±5°C.
  - Testing area must be well lit.
- Kits stored at 0-7°C.
- Must use SNAPshot DSR Reader with printer.
- · Reader Performance Check Set must be within limits.
- Can use frozen negative control. Positive control cannot be frozen, but can be made with frozen negative milk.



# IDEXX NEW SNAP PROCEDURE

- Set out SNAP devices, samples tubes and pipettes for each sample.
  - Discard unused devices at the end of day.
- · Label each device and sample tube.
- · Place SNAP device on incubator block.
  - Make sure blue reagent pellet is in bottom of tube before removing cap.
- Mix sample, pipette within three minutes.
- Pipette 450 ( $\pm$  50)  $\mu$ L sample into sample tube.
  - Sample tube should not be placed in heater block until after sample is pipetted into tube.



# **IDEXX NEW SNAP PROCEDURE**

- Incubate tube in heater block for 5 minutes (use timer).
- Pour contents of tube into sample well of SNAP device.
- Unit must be snapped when blue activation circle first BEGINS to disappear (unit remains in heater block).
- Incubate device for 4 minutes (use timer).
- Inspect control and test spots to determine if test is valid.
- Read IMMEDIATELY after final incubation with IDEXX Reader.
  - $\bullet$  Read within 30 seconds maximum test no more than two samples at a time to stay within this time limit.



# COMMON TESTS USING A READER/PRINTER OTHER INHIBITOR ASSAYS:

# Testing for other than beta-lactams:

- Currently, you are not required to test for other inhibitors, BUT
- If you test for it and find it, you must have it confirmed.

# •Charm Sciences (ROSA)

- Charm SULF
- · Charm Tetracycline SL
- Charm TRIO



# CHARM SULF SULFONAMIDE TEST

- Uses ROSA Reader VI.03 or higher set to SULF channel
  - or use EZ Reader
- Positive control made with 10ppb Sulfamethazine
- Test times are the same as SLBL (8-minute) test.
- All testing is run on an UNDILUTED sample (screening, verification, and confirmation).
- EZ Reader must be in "Read Only" mode for Verification and Confirmation steps.



# CHARM ROSA TETRACYCLINE SL TEST



- Uses ROSA Reader VI.03 or higher set to TETRA channel
  - or use EZ Reader
- $\bullet\,$  Test times are the same as SLBL (8-minute) test.
- Screening and producer traceback run with UNDILUTED sample
- Verification, load confirmation, and producer confirmation run with DILUTED sample
- EZ Reader must be in "Read Only" mode for Verification and Confirmation steps.



# CHARM ROSA TETRACYCLINE SL

- Negative control
  - Previously tested tetracycline negative raw milk
- · Positive control.
  - Prepare with three tablets 100ppb Oxytetracycline in 5mL negative control (raw milk).
- ROSA Reader TETRA slow blink
- Test procedure is the same as SL Beta-lactam (screen).



# CHARM ROSA TETRACYCLINE SL

- DILUTION STEP REQUIRED FOR CONFIRMATION.
- Initial screen, producer traceback, and negative clearing samples are run UNDILUTED.
  - Any positive load or producer result is retested in duplicate with the dilution step.
- Load verification, load confirmation, and producer confirmation samples are run DILUTED.
  - Dilute the sample using ImL Tetracycline Dilution Buffer and ImL sample/control and mix before testing (ImL = 1000µL).



# UNCOMMON TESTS - BETA LACTAM ASSAYS:

- Charm BSDA
- Charm II Beta-lactam Assays
  - · Competitive Assay
  - · Sequential Assay
  - Quantitative Assay



# UNCOMMON TESTS USING A READER/PRINTER OTHER INHIBITOR ASSAYS:

- IDEXX Tetracycline
- Charm II Non-Beta-Lactam Assays:
  - Sulfonamide
  - Tetracycline

# Testing for other than beta-lactams

- Currently, you are not required to test for other inhibitors, BUT
- If you test for it and find it, you must have it confirmed.



WISCONSIN DEPARTMENT OF AGRICULTURE TRADE AND CONSUMER PROTE

# CHARM BSDA (BACILLUS STEAROTHERMOPHILUS DISK ASSAY) VISUAL READ TEST



- One of the oldest approved tests. Uses media prepared in-house.
- 2½- to 3-hour incubation.
- May detect other inhibitors as well as Beta-lactams.



# CHARM BSDA (BACILLUS STEAROTHERMOPHILUS DISK ASSAY)

- Paper discs placed 10mm apart on agar media (use template).
- Dispense 90 µL of positive control (5ppb Pen G standard), negative control (zero standard), and up to five samples per plate.
- Incubate at 64±2°C, 2½ to 3 hours until well defined zones of inhibition are obtained on the positive control.
- Valid positive control zone is 16-20mm (use calipers readable to 0.1mm).
- Measurable zones >12.7mm must be promptly confirmed to report as positive for inhibitor or Beta-lactam residue.





# CHARM II TESTS

- Uses all equipment shown below to run test.
- It takes about 20 minutes to complete the test.
- Radioactive material needs proper handling and disposal.





CHARM II TE	ST	S
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All Charm II tests have been consolidated into two forms (Rev 4/16):

- **Darm II Beta-Lactam Assays**: Competitive, Sequential, Quantitative, and Cloxacillin
  - o Cloxacillin test has been withdrawn.
- □ Charm II Other Inhibitor Assays: Sulfonamides, Tetracyclines, and Chloramphenicol (this test is not NCIMS approved)

Carefully review forms - procedures are intermixed



# **CHARM II TESTS**

- Incubation temperatures are different for each assay check form for temperature requirements.
- · Vortex mixer and centrifuge required.
- Scintillation fluid expires six months after opening (mark with open date). Dispose of properly.
- $\bullet\,$  Must establish positive and negative control points (watch percentages).
- Sample results less than 50 greater than control point are recounted (Beta-lactam Competitive, Sequential, and Quantitative assays only).
- Tests use radioactive materials handle properly.



# IDEXX SNAP® TETRACYCLINE TEST REQUIREMENTS

- Same test requirements as Idexx SNAP Beta-lactam test
- Same test procedure as Beta-lactam test (screening only)

# **HOWEVER...**



# IDEXX NEW SNAP® PROCEDURE

- DILUTION STEP REQUIRED FOR CONFIRMATION.
- Initial screen, producer traceback, and negative clearing samples are run UNDILUTED.
  - $\bullet$  Any positive load or producer result is retested in duplicate with the dilution step.
- Load verification, load confirmation, and producer confirmation samples are run DILUTED.
  - $\bullet$  Dilute the sample using one part sample to nine parts tetracycline negative milk (fresh or frozen).
  - Controls are not diluted.



Kate Angeles, Lisa Roskom, Mary Wegner, and Melissa Francois
Laboratory Evaluation Officers – Division of Food and Recreational Safety
Email: datcpleo@wisconsin.gov Website: datcp.wi.gov

Email: datcpleo@wisconsin.gov Website: datcp.wi.gov
WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION (DATCP)
Fall 2024Workshop



Fall 2024 Workshop

# THE BIG THREE

# Responsibilities of Industry Supervisors

Training Analysts

- New hires
- All analysts annually

Internal Audit

- NIST Thermometers
- Pipettors
- Performance testing
- Verification of initial positive tanker

Submit Paperwork

- First page identification
- Fill in all blanks correctly
- Send to LEOs



# **#I.TRAINING ANALYSTS**

New Hires

■ Must be done before testing loads

All Analysts

Review and retrain annually

Training Should Include:

- Testing method procedures according to the pertaining 2400 Form
- Knowledge of the Appendix N General Requirements 2400 Form
- Ability to utilize all laboratory QC forms
- Positive Drug Residue Report Form completion
- "Unknown" sample testing with all methods



			IING L	OG		
The second	sconsin Department de & Consumer Pri ision of Food Sefety Box 8911, Madison ephone (508) 224-4 APPENDIX	otection y n. WI 53708		PORT		"Unknown" samples are three unknown samples (made inhouse or purchased.)
		CERTIF	ICATE EXPIRATION			■ Form can be filled out for all analysts.
						■Test method is the procedure
ADDRESS CITY/STATE						used.
		DATE AUDIT	COMPLETED			useu.
						Include all needed information.
ANALYST NAME	DATE TRAINED	TEST METHOD	PROFICIENCY TEST RESULT P=PASS F=FAIL	DATE OF PROFICIENCY TEST	INITIALS	■ Send to the Lab Evaluation
		Charm SL				Officer within 30 days.
		Delvo P				

# #2 THE INTERNAL AUDIT

- Must be completed annually by due date (This is required for screening labs.)
- **2.** Use the Appendix N General Requirements 2400 Form.
- **3.** Use the pertaining 2400 form(s) for each specific test kit (ie. Charm, Delvo, etc.)
- 4. Locate these forms at www.ncims.org.



# #2 THE INTERNAL AUDIT....CONT'D

**5.** Be sure to include the following information:

Thermometer Verification

■ Includes NIST certificate info and Ice Point Check

Pipette Verification

■ Twice a year – outlined on 2400 Form

Performance Testing of Equipment and Controls

• i.e. Charm Reader calibration, positive and negatives values, positive follow up testing



# #2 THE INTERNAL AUDIT....CONT'D

# TIME TO AUDIT

Use the 2400 Forms as a "checklist." Verify your facility is in compliance by going line by line.

Have Questions? Contact an LEO. DATCPLEO@wisconsin.gov

- A checkmark, ok, or yes are acceptable answers on each line. ("RO" or "O" on electronic version)
   If not in compliance don't just panic. FIX it.
- Mark a line "NA" if an item does not apply to your lab.





3. Temperature Measuring Devices #2 THE INTERNAL AUDIT... **THERMOMETERS** Graduation/recording interval not greater than 1.0°C [NCIMS Accredited Laboratories and Certified Industry Supervisor Facilities, 0.5°C] This requirement is found on the App N Gen. Req Form under #3

# #2 THE INTERNAL AUDIT: THERMOMETERS

- HAVE a National Institute of Standards and Testing (NIST) Traceable thermometer or other temperature measuring device with Certificate.
- CHECK the NIST annually at Ice Point (use ice slurry mix).
- USE your NIST to check the accuracy of lab thermometers.
   \*Check all in-use/working thermometers annually (12 month period).
   \* Document calibrations on a designated form at your facility.
  - \*If calibrated off site, maintain copies of results.
  - \* Tag thermometers with calibration information.



# #2 THE INTERNAL AUDIT... PIPETTES Pipettors, Calibrated, Fixed Volume or Electronic Only [Required for NCIMS Accredited Laboratories and Certified Industry Supervisor Facilities] a. Pipettors etched with identification (imprinted serial numbers acceptable) and tagged with date accuracy checked b. Appropriate tips for pipettor(s) used Tagged & Dated c. Follow manufacturer's instructions unless otherwise stated regarding proper technique for use d. Pipetting devices accuracy checked on-site e. Pipetting devices accuracy checked at another location 1. Location: 2. Current and acceptable

# #2 THE INTERNAL AUDIT: PIPETTES

Average ±5% of the specified volume.

i.e.  $300\mu L \pm 5\%$ 

- f. Check accuracy with ten (10) consecutive measurements, by weight or by volume (>1.0 ml using a class A graduated cylinder), using separate tip for each measurement, every 6 months
- g. Average of all 10 measurements must be ±5% of specified delivery volume; maintain records



# #2 THE INTERNAL AUDIT: PERFORMANCE TESTING

### PERFORMANCE TESTING

- 10. Performance Testing
  - Run a positive and negative control before use on each new lot of kits, must give appropriate results; maintain records
  - b. Run a negative and positive control DAILY (on days testing), at each test site, must give appropriate results, if not, re-run controls (may be necessary to prepare new controls); if problem persists discontinue testing, contact State regulatory and seek technical assistance; maintain records
  - c. If available from manufacturer, check instrument calibration with check devices **DAILY** (on days testing), must give appropriate results, if not, discontinue testing and seek technical assistance; maintain records
  - If more than one analyst performs analysis, have different analyst run performance check on rotational basis

Common information to fill in for all the 2400 Forms:

- e 2400 Forms:

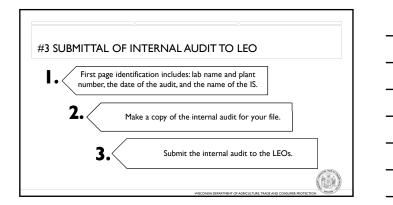
   Incubator temperature
- Incubator temp
   Incubator time
- Serial # of the Charm reader
- High and low ranges for the calibrator strips
- Lot number and expiration date for the test kit
- Lot number and expiration date for the controls



WISCONSIN DEPARTMENT OF AGRICULTURE TRADE AND CONSUMER PROTECTION

# #2 THE INTERNAL AUDIT: FOLLOW-UP TESTING STEP #1 • Verification of an initial positive sample is the responsibility of the screening lab. • Same sample tested by the same analyst using the same test in duplicate w/controls. FOLLOW-UP ON TEST KIT POSITIVE RESULTS [Must comply with PMO Appendix N, current revision] 11. Verification of initial Positive Tanker Samples a. The SAME sample is re-tested by the SAME analyst using the SAME test kit in DUPLICATE along with a positive and negative control b. Positive and negative controls give the appropriate result(s) 1. If positive and/or negative controls do not give appropriate results, re-run controls and samples. If problem persists seek technical assistance

# #2 THE INTERNAL AUDIT: FOLLOW-UP TESTING STEP #2 \*The confirmation and trace back testing is NOT done at a screening lab. \*Write in the name of confirmation lab. \*Fill lines with "N/A". 12. Confirmation of Presumptive Positive Tanker Samples [Only in an accredited laboratory or by a CIS (refer to Ma-a85 current revisions for listing of test kits to assure equivalence)] a. The SAME sample for if it of the sample may be a confirmed Positive Tanker in UUP/LCATE along with a profront an an accredited laboratory or by a CIS (refer to Current revision for listing of test kits to assure equivalence)] a. Samples must be between 0.0 and 4.5°C. Maintain records b. Perform an initial single test on each producer sample







LEO CONTACT INFORMATION

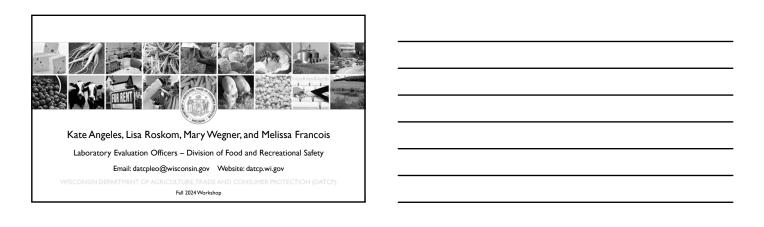
datcpleo@Wisconsin.gov

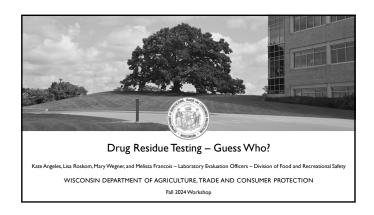
-OR
Kate.Angeles@Wisconsin.gov (608) 416-0244

Lisa.Roskom@Wisconsin.gov (920) 360-3459

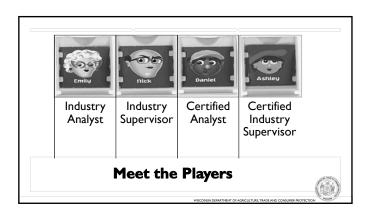
Mary.Wegner@Wisconsin.gov (608) 720-9612

Melissa.Francois@Wisconsin.gov (608) 419-4642









GUESS WHO!  > Train industry (corecenting Analyses  > Complete the lab's internal Audit  > Scream incoming pasker amples  > Only approved to do the verification steep of an initial positive  GUESS WHO!  > Observed by LEO during on-site evaluation  > Participates in State Provided Spilica/FT testing  > Can confirm a positive load  > Never has attended Industry  Supervisor training  GUESS WHO!  > Tassed and correctly infectified at least three subscious surplus  > Tassed and correctly infectified at least three subscious surplus  > Tassed and correctly infectified at least three subscious surplus  > Tassed with 2400 forms by Moutry Supervisor coming  > Tassed with 2400 forms by Moutry Supervisor coming to the control of the control o		
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- Observed by LEO during on-site evaluation - Participates in State Provided Splits/PT testing - Can confirm a positive load - Never has attended Industry Supervisor training  GUESS WHO?  - Tested and correctly identified at least three unknown samples - Trained with 2400 forms by Industry Supervisor  - Trained with 2400 forms by Industry Supervisor	WISCOMEN CERNITIFIES OF AGRICULTURE TRUCK AND CONSUMER MOTECTION	<u> </u>
- Observed by LEO during on-site evaluation  - Participates in State Provided Splits/PT testing  - Can confirm a positive load  - Never has attended Industry Supervisor training		
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Supervisor training  WESTERNING OF LIGHT VIOLENCE VIOLENCE AUGUSTON  WESTERNING OF LIGHT VIOLENCE VIO	<ul> <li>Participates in State Provided Splits/PT testing</li> </ul>	
GUESS WHO?  > Tested and correctly identified at least three unknown samples  > Trained with 2400 forms by Industry Supervisor	➤ Can confirm a positive load	
GUESS WHO?  > Tested and correctly identified at least three unknown samples  > Trained with 2400 forms by Industry Supervisor	➤ Never has attended Industry	
GUESS WHO?  > Tested and correctly identified at least three unknown samples  > Trained with 2400 forms by Industry Supervisor	Supervisor training	
> Tested and correctly identified at least three unknown samples > Trained with 2400 forms by Industry Supervisor	WISCONSIN DEPARTMENT OF AGRICULTURE TRADE AND CONSUMER RESTRICTION	
> Tested and correctly identified at least three unknown samples > Trained with 2400 forms by Industry Supervisor		
> Tested and correctly identified at least three unknown samples > Trained with 2400 forms by Industry Supervisor		
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> Tested and correctly identified at least three unknown samples > Trained with 2400 forms by Industry Supervisor		
> Tested and correctly identified at least three unknown samples > Trained with 2400 forms by Industry Supervisor	GUESS WHO?	
three unknown samples  > Trained with 2400 forms by Industry Supervisor		
Supervisor ————————————————————————————————————	Iested and correctly identified at least three unknown samples	
	<ul> <li>Trained with 2400 forms by Industry Supervisor</li> </ul>	
	(65A)	

GUESS WHO?	
> Train Industry (screening) Analysts	
> Complete the lab's Internal Audit	
<ul> <li>Observed by LEO during on-site evaluation</li> </ul>	
> Participates in State Provided Splits/PT	
testing	
WISCOMEN DEFINATION OF ACASCLATURE TRADE AND CONSIGNER PROTECTION	
GUESS WHO?	
> Individual passed Industry Supervisor (IS)	
<ul> <li>Individual passed Industry Supervisor (IS)</li> <li>test five years ago and hasn't been to an</li> <li>IS training since.</li> </ul>	
<ul> <li>Observed by LEO during on-site evaluation</li> </ul>	
Participates in State Provided Splits/PT	
testing	
WISCONDIN DEPARTMENT OF AGRICULTURE TRADE AND CONSIGNER RICHCHON	
GUESS WHO?	
> Passed Industry Supervisor test one year ago	
> Participates in State Provided Splits/PT	
testing  > Has NOT been observed by LEO at	
on-site	
	<del></del>

6
WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION

### PLEASE SEND INTERNAL AUDITS/TRAINING FORMS AND ANY QUESTIONS TO:

 $Team\ Email: \underline{datcpleo@Wisconsin.gov}$ 

Lisa Roskom: <u>Lisa.Roskom@Wisconsin.gov</u> or (920) 360-3459

Mary Wegner: Mary.Wegner@Wisconsin.gov or (608) 720-9612

Melissa Francois: Melissa.Francois@Wisconsin.gov or (608) 419-4642

Mail to: DATCP Attn: Laboratory Evaluation Officers PO Box 8911 Madison WI 53708

Remember: Legibility of all documents is critical -- electronic forms are available if needed



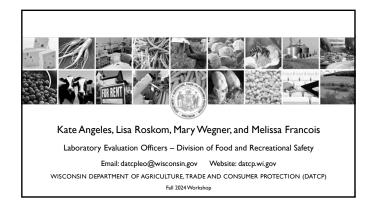
### TO TAKE THE TESTS FOR INDUSTRY SUPERVISOR APPROVAL

Contact the LEO Team Email at datcpleo@Wisconsin.gov

To receive your test:

- Please provide your name, dairy plant name and number, email address, and test(s) requested.
- $\bullet$   $\,$  Previous Industry Supervisors will receive a testing link for each test.
- $\bullet$  New Industry Supervisors will be trained and tested via Microsoft Teams.
  - You must have video and audio capability on your computer in order to receive the training/testing via Teams.





# APPENDIX N BULK MILK TANKER SCREENING TEST FORM GENERAL REQUIREMENTS

# [Unless otherwise stated all tolerances ±5%]

1.	Wor	rk Area						
	a.	Ample working space and utilities						
	b.	Clean well ventilated, test kit used in temperature range specified by manufacturer, reasonably free from dust and drafts						
	C.	Adequate lighting, [NCIMS Accredited Laboratories and Certified Industry Supervisor Facilities, > 50 foot-candles at working surface (pref. 100)]						
	d.	Eating and drinking not permitted in immediate testing area						
2.	. Storage Space							
	a.	Cabinets, drawers, and shelves adequate						
	b.	Areas neat, clean and orderly						
3.	Tem	perature Measuring Devices						
	a.	National Institute of Standards and Testing (NIST) traceable thermometer or other temperature measuring device with certificate. Must be checked annually at ice point						
		Reference temperature measuring device identity:						
		Serial # Date of Certificate Ice Point Date						
		a:						
		b:						
		2. Graduation/recording interval not greater than 1.0°C [NCIMS Accredited Laboratories and Certified Industry Supervisor Facilities, 0.5°C]						
	b.	Range of test temperature measuring device appropriate for designated use						
		Mercury-in-glass (MIG), alcohol/spirit-in-glass (AIG) or electronic/digital thermometers in degrees centigrade						
		Plastic lamination recommended for mercury thermometers						
		3. Graduation/recording interval not greater than 1.0°C [NCIMS Accredited Laboratories and Certified Industry Supervisor Facilities, 0.5°C]						

C.		l use and annually					
	1.	Checked against NIST traceable thermometer					
	2.	Accurate to ±1°C when checked at temperature(s) of use					
	3.	Results recorded/documented and individual devices tagged					
		a. Tag includes identification/location, date of check, temperature(s) checked and correction factor(s), as applicable					
d.		perature measuring devices are to be read to the nearest graduation/rding interval, optionally labs may interpolate between graduations					
e.	Ten	perature Monitoring Systems (wired/wireless)					
	1.	The software must record temperature reading from each sensor/probe in the piece of equipment being monitored at the same or greater frequency as stipulated for MIG or AIG thermometers. Optionally, set to register an alert/alarm when out of the acceptable temperature range					
		a. When temperature(s) are out of acceptable range for greater than two hours, event must be documented and corrective action taken as necessary; maintain records					
	2.	Optionally, a minimum two-day backup power source (battery/electrical) for the temperature monitoring system and/or all required sensors/probes, remote signal device and monitor/controller may be employed in case of power failure					
	3.	Temperature monitoring system records for each piece of equipment must be available/accessible for auditing as described in item 3.c above					
f.		matic temperature recording instruments, if used, compared weekly nst an accurate thermometer; maintain records					
g.	Ten	perature measuring device(s) checked for accuracy at another location					
	1.	1. Location:					
	2.	Current and acceptable					
	3.	Copy of record on-site					
h.	Dial	thermometers not used in the laboratory					

+.	Rei	rigeration (Sample)									
		(Reagent)									
	a.	Size adequate for workload									
	b.	Maintains samples at 0.0-4.5°C									
	C.	Used for storage of milk or milk products, media and reagents only									
		Not to be used to store food or drink for consumption									
	d.	<ul> <li>Record/download temperature (corrected) daily, from two temperature measuring devices with bulbs or sensor/probe immersed in liquid (in sealed containers) [NCIMS Accredited Laboratories and Certified Industry Supervisor Facilities, AM and PM]</li> </ul>									
	e.	Temperature measuring devices located on upper and lower shelves of use									
5.	Fre	ezer ()									
	a.	Size adequate for workload									
	b.	Maintains -15°C or below									
	C.	Used for storage of frozen milk products, controls, media and reagents only									
		Not to be used to store food or drink for consumption _									
	d.	Record/download temperature (corrected) daily, from temperature measuring device with bulb or sensor/probe immersed in liquid (in sealed container) [NCIMS Accredited Laboratories and Certified Industry Supervisor Facilities, AM and PM]									
ô.	Bal	ance, Electronic (if necessary)									
	a.	Weight capability appropriate for intended use									
	b.	Appropriate sensitivity for accuracy check of pipetting devices within a tolerance of ±5% (0.001g sensitivity appropriate in most instances)									
	C.	Checked monthly with Class S or S1, or equivalent ASTM 1, 2, or 3 weights corresponding to normal use of balance (At a minimum, Appendix N drug residue testing only laboratories must check the balance calibration within 30 days prior to the pipettor accuracy check)									
		Certificate or other verification of authenticity									
		Free from excessive wear, filth and corrosion									

		3. Weights within class tolerance
	d.	Checked annually by a qualified service representative
		1. Date of Last Check:
	e.	Maintain records
7.		ettors, Calibrated, Fixed Volume or Electronic Only [Required for MS Accredited Laboratories and Certified Industry Supervisor Facilities]
	a.	Pipettors etched with identification (imprinted serial numbers acceptable) and tagged with date accuracy checked
	b.	Appropriate tips for pipettor(s) used
	C.	Follow manufacturer's instructions unless otherwise stated regarding proper technique for use
	d.	Pipetting devices accuracy checked on-site
	e.	Pipetting devices accuracy checked at another location
		1. Location:
		Current and acceptable
		3. Copy of record on-site
	f.	Check accuracy with ten (10) consecutive measurements, by weight or by volume (>1.0 ml using a class A graduated cylinder), using separate tip for each measurement, every 6 months
	g.	Average of all 10 measurements must be ±5% of specified delivery volume; maintain records
	h.	Or, check accuracy with 10 consecutive readings once every 6 months using the Artel PCS Pipette Calibration System, average of all 10 readings must be ±5% of specified delivery volume; maintain records/printouts
		PCS Calibration System Validation, upon receipt, validate the instrument by following the manufacturer's protocol
		PCS Pipette System Quality Control
		Following manufacturer's Procedure Guide and instrument prompts,     perform an instrument calibration every 30 days or just prior to use
		h Record results and file Calibration Certificate (printout)

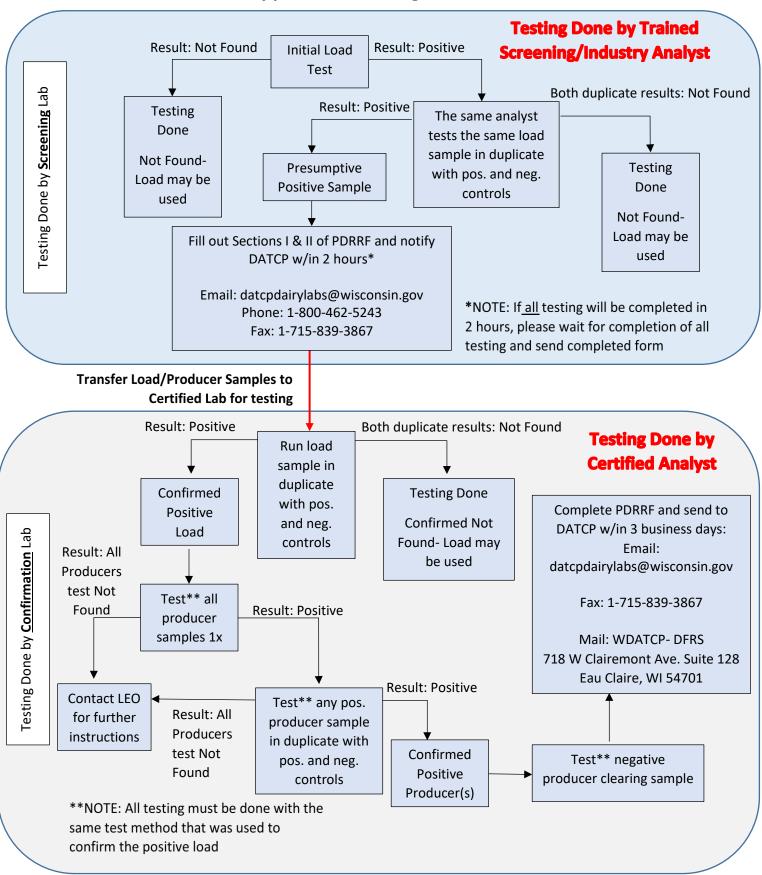
		3.	Store reagent kits and Instrument Calibrator kits at room temperature	
			Lot #: Exp. Date:	
		4.	Reagent Blanks and Sample Solutions are the same lot	
		5.	PCS Pipette Calibration System Procedure, follow manufacturer's Procedure Guide and instrument prompts	
	i.	Mai	intain records	
8.	Dei	onize	ed Water or Equivalent, or as specified by manufacturer	
			SAMPLES	
9.	San	nple	Requirements	
	a.	App	pendix N tanker sample(s)	
		1.	Prevent contamination with disinfectants from hands or other sources	
		2.	Ascertain temperature of bulk milk tanker; maintain records	
		3.	Secure a representative sample for testing. If sample will not be tested without delay then a temperature control (TC) sample must be taken at the same time, transported, and maintained with the tanker sample(s) until it is tested	
		4.	Tanker sample(s) tested promptly upon arrival at the testing location (date and time recorded)	
			Determine sample temperature by inserting a pre-cooled thermometer (pre-cooling of electronic/digital thermometer probes is not necessary) into temperature control	
			b. Temperature of bulk milk tanker may be used for temperature as received and tested if sample testing begins without delay	
	b.	con	pendix N Producer Trace Back Samples (Sample(s) not meeting the aditions outlined below may still be tested. The certified laboratory or S will document the condition of the sample(s))	
		1.	Samples should be accompanied by a temperature control (TC).  If no TC, aliquot sample(s) for testing and measure temperature using one of the producer samples	
		2.	Sample(s) should not be leaking	
		3	Tops of samples should be protected from direct contact with ice	

		Unprotected samples should not be submerged in water and/or ice or slush	
		PERFORMANCE TESTING	
10.	Per	formance Testing	
	a.	Run a positive and negative control before use on each new lot of kits, must give appropriate results; maintain records	
	b.	Run a negative and positive control <b>DAILY</b> (on days testing), at each test site, must give appropriate results, if not, re-run controls (may be necessary to prepare new controls); if problem persists discontinue testing, contact State regulatory and seek technical assistance; maintain records	
	C.	If available from manufacturer, check instrument calibration with check devices <b>DAILY</b> (on days testing), must give appropriate results, if not, discontinue testing and seek technical assistance; maintain records	
	d.	If more than one analyst performs analysis, have different analyst run performance check on rotational basis	
		FOLLOW-UP ON TEST KIT POSITIVE RESULTS [Must comply with PMO Appendix N, current revision]	
11.	Veri	ification of Initial Positive Tanker Samples	
	a.	The <b>SAME</b> sample is re-tested by the <b>SAME</b> analyst using the <b>SAME</b> test kit in <b>DUPLICATE</b> along with a positive and negative control	
	b.	Positive and negative controls give the appropriate result(s)	
		If positive and/or negative controls do not give appropriate results,     re-run controls and samples. If problem persists seek technical     assistance	
	C.	If one or both duplicates is positive the tanker sample is <b>PRESUMPTIVE POSITIVE</b> and the sample is referred to the designated certified laboratory or Certified Industry Supervisor (CIS) as specified by the facility's protocol as per Agreement with the State Regulatory Agency	
	d.	Presumptive positive samples must be forwarded to a certified laboratory, not tested by screening facility; producer samples must be tested by a certified laboratory	
	e.	If both duplicates are negative milk may be received and processed, record and report as <b>NOT FOUND</b>	

	t.	all analyses						
		For Presumptive Positive samples, maintain a copy of the Positive     Report form and forward the original to the certified laboratory or CIS						
12.	. Confirmation of Presumptive Positive Tanker Samples [Only in an accredited laboratory or by a CIS (refer to M-a-85 current revision for listing of test kits to assure equivalence)]							
	a.	The SAME sample [or if it can be demonstrated that the original sample is suspect, a re-sample may be used at the State's discretion] is tested in DUPLICATE along with a positive and negative control						
	b.	Positive and negative controls give the appropriate result(s)						
		If positive and/or negative control do not give appropriate results, re-run controls and samples, if problem persists seek technical assistance						
	C.	If one or both duplicates is positive the tanker sample is <b>CONFIRMED POSITIVE</b> , milk may not be processed, contact State Regulatory						
	d.	Producer trace back performed on all producer samples from the load, see item 13						
	e.	If both duplicates are negative milk may be received and processed, record and report as <b>NOT FOUND</b> , producer trace back is not performed						
	f.	Complete applicable section of Positive Report form and maintain records of all analyses						
		For Confirmed Positive samples, maintain a copy of the Positive Report form and forward the original to the State Regulatory Agency						
13.	[On	ce back of Producers on a Confirmed Positive Tanker lly performed in an accredited laboratory or by a CIS (refer to M-a-85 rent revision for listing of test kits to assure equivalence)]						
	a.	Samples must be between 0.0 and 4.5°C. Maintain records						
	b.	Perform an initial single test on each producer sample						
	C.	Any producer sample that is positive must be re-tested						
	d.	The <b>SAME</b> sample is re-tested by the <b>SAME</b> analyst using the <b>SAME</b> test in <b>DUPLICATE</b> along with a positive and negative control						
	e.	Positive and negative controls give the appropriate result(s)						
		If positive and/or negative control do not give appropriate results, re-run controls and samples, if problem persists seek technical assistance						

	f.	If one or both duplicates is positive the producer sample(s) is (are)  POSITIVE	
	g.	If both duplicates are negative record and report the appropriate producer sample(s) <b>NOT FOUND</b>	
	h.	Complete applicable section of Positive Report form and maintain records of all analysis	
		For Confirmed Producer Positive samples, maintain a copy of the Positive Report form and forward the original to the State Regulatory Agency	
		REPORTING AND RECORDS	
14.	Rep	orting and Records	
	a.	Report as <b>Positive (+)</b> for beta-lactam, specific drug or inhibitor (when a non-specific microbial inhibitor test used without beta-lactamase) when demonstrated	
	b.	Report as <b>Not Found (NF)</b> when demonstrated	
	C.	Record test performed, interpretation of unknowns (samples) and controls	
	d.	Records, including all printouts, maintained for 2 years	
		MISCELLANEOUS	
15.	Misc	cellaneous	
	a.	Current Safety Data Sheets (SDS) accessible to analysts	
	b.	Current, applicable survey forms available in laboratory	
	C.	Positive Report forms available with instructions	
	d.	Personnel adequately trained	
	e.	Required split/check sample participation	

# **Appendix N Testing Flowchart**



F-fd-49 (Rev. 10/17)



Wisconsin Department of Agriculture, Trade and Consumer Protection Division of Food and Recreational Safety

718 W. Clairemont Ave., Ste. 128, Eau Claire, WI 54701

Phone: (715) 839-3844 Fax: (715) 839-3867

# POSITIVE DRUG RESIDUE REPORT FORM

Wis. Stat. §§ 97.22 and 97.20

### REPORT LOADS OF MILK CONTAINING DRUG RESIDUE ON THIS FORM

Complete the information in sections I and II immediately (within 2 hours) and provide this information to the Department's Division of Food and Recreational Safety by telephone, fax or e-mail. Then, complete the rest of the form and submit within 3 business days to: WDATCP, Division of Food and Recreational Safety, 718 W. Clairemont Ave., Ste. 128, Eau Claire, WI 54701. Retain a copy for your records.

HOT LINE NUMBER: (800) 462-5243 FAX NUMBER: (715) 839-3867 E-MAIL: datcpdairylabs@wisconsin.gov

THO I EINE HOMBER: (C	•	AX NOMB	<b>LIV.</b> (7 10)	000 0007		=: datopdan	ylab3 @ Wi	ocorioiri.gc	· v		
I. LOAD IDE	NTIFICATION							PLANT NUM	MDED.		
RECEIVING FEART.								I LANT NON	IDLIK.		
PLANT ADDRESS/LOCATION	PLANT ADDRESS/LOCATION:								STATE:	ZIP:	
TANKER LICENSE NUMBER:	WEIGHT OF LO	AD: L	OAD NUMBI	ER:	NAME	OF HAULER:				<u> </u>	
ORIGINATING PLANT NAME	(if different from receive	ving plant):			I			PLANT NUM	MBER:		
II. LOAD SC	REENING TEST	INFORMAT	ION								
DATE LOAD SCREENED POS		□ AM □ PM	TEST MET	THOD:				TEST KIT LO	OT #:		
SCREENED POSITIVE FOR:	·		SITIVE RES	ULT PHONED, I	FAXED, I	EMAILED TO [	DATCP:	TIME:	□ АМ		
☐ BETA LACTAMS ☐	TETRACYCLINES	;							□ РМ		
NAME OF PERSON REPORT	ING:							PHONE NUI	MBER:		
	NFIRMATION T	EST			-						
	AMPLE RECEIVED:		□ АМ			EST STARTE			□ АМ		
	ATE:	TIME:	□РМ	TEMP:		DATE:	TIME	::	□РМ⊤		
TEST METHOD:		TEST KIT LOT #:			Т	TEST RESULT #1:			TEST RES		_
OF DITIFIED WILL AD LIGHNOF	и.						□ POS □			□ POS □	
CERTIFIED WI LAB LICENSE	#:	NAME OF CE	NAME OF CERTIFIED INDIVIDUAL:					CERTIFIED	LAB ANALY	ST LICENSE #	ł <u>e</u>
	ION OF MILK										
	SED IN PROCESS	INC $\square$		JECTED & RE	TUDNE	ח דט פרון ר	D**				
				JECTED & RE	IURNE	D 10 SELLE	.K				
**Complete Tanker Dispo											
NAME OF SELLER CONTACT	PERSON - Reporting	g plant must not	tify supplying	plant IMMEDIA	TELY. (O	NLY FOR LOA	AD REJECTE	ED):	DESTINAT	ION STATE:	
V. POSITIVE	PRODUCER SA	MDLEST	EST DAT	\							
	RODUCER NAME:	AWIPLE & IL	SIDAIA	1			PRODUCER	R GRADE:	DIREC	T SHIPPER:	
								] в		s 🗆 no	
SAMPLE COLLECTION:		A.B.4		SAMDLE	E COLLE	CTED BY - BN				.0 110	
DATE		AM PM TEME	<b>5</b> .	SAMEL	LOCLL	CILD BI - BIN	VIVO NAIVIL	& LICENSE #			
TEST STARTED:				TEOT 1/	IT LOT "	,	TEOT DEOL	U T #4	TEOT		
		TEST METHO	DD:	IESTK	IT LOT #	:	TEST RESU			RESULT #2:	
DATE: TIME:	PM			OFDIE	150 LAD	ANALVOTUS		□ POS □	NF	□ POS	
CERTIFIED WI LAB LICENSE  105 -	#:			CERTIF	IED LAB	ANALYST LIC	ENSE #:				
	E RECHECK/RE	SLIME SHIE	PING								
SAMPLE COLLECTION:	□ AM	SOME SHIP	TING	SAMPLE	E COLLE	CTED BY – BI	MWS NAME	& LICENSE #	<i>‡</i> :		
DATE: TIME:	□ PM	TEMF	o:								
TEST STARTED:	□ АМ	TEST METHO	DD:	TEST K	IT LOT #	:		TEST RES	ULT:		
DATE: TIME:	□ PM								□ NF	=	
CERTIFIED WI LAB LICENSE				CERTIF	IED LAB	ANALYST LIC	ENSE #:	•			
105 -											

### POSITIVE DRUG RESIDUE REPORT FORM

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All tanker loads of milk, including direct ship tankers from single producers, received by a dairy plant shall be tested for drug residue. If the screening site gets a positive test result on the first test of the load, the screening site must test the same sample, in duplicate, with positive and negative controls.

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1. The information in Sections I and II must be completed IMMEDIATELY (within 2 hours) and this information is reported to the Division of Food and Recreational Safety.

By Telephone: 1-800-462-5243 By FAX: 1-715-839-3867

By E-mail: datcpdairylabs@wisconsin.gov

- 2. The dairy plant screening the load positive is responsible for assuring that the confirmation testing is done on the load and all patron samples for that load are tested. Complete the remainder of the form as follows:
  - A. If load confirms NEGATIVE, complete Sections III and IV. Sections V and VI apply if there was a positive producer.
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Mail, fax or e-mail the completed form within 3 business days to: WDATCP - DFRS 718 W Clairemont Ave. Suite 128 Eau Claire, WI 54701

<sup>\*\*</sup>Retain a copy of form and the Tanker Milk Disposal Report for your records

F-fd-49 (Rev. 10/17)



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THE LOAD IS	` '		700 HOMB	<b></b> (/ 10)	1000 0001		ine: datopadii	ylabo@W	iooonom.go	, ,	
I. LOAD II RECEIVING PLANT:	DENTIFIC	SATION							PLANT NUN	ADED:	
RECEIVING FLAINT.									FLANTINON	ADLIX.	
PLANT ADDRESS/LOCATION	ON:					CITY	:			STATE:	ZIP:
TANKER LICENSE NUMBE	R: WE	IGHT OF LO	AD: L	OAD NUMB	ER:	NAM	E OF HAULER:				.L
ORIGINATING PLANT NAM	E (if differe	nt from receiv	ring plant):						PLANT NUN	MBER:	
	·										
II. LOAD S	CREENI	NG TEST	INFORMA	TION							
DATE LOAD SCREENED P		TIME:	□ ам		THOD:				TEST KIT LO	OT #:	
			□ РМ								
SCREENED POSITIVE FOR	₹:		DATE PO	SITIVE RES	BULT PHONED,	FAXED	, EMAILED TO	DATCP:	TIME:	□ АМ	
☐ BETA LACTAMS [	☐ TETRA	CYCLINES								□РМ	
NAME OF PERSON REPOR	RTING:								PHONE NUI	MBER:	
	<u> </u>										
III. LOAD C		IATION TE	:51				TEST STARTE	D·			
	DATE:		ГІМЕ:		TEMP		DATE:	D. TIME	<b>⊑</b> .		EMP
	DATE.			☐ PM	TEMP:					□ PM T	
TEST METHOD:			TEST KIT LO	1 #:			TEST RESULT		NE	TEST RES	
CERTIFIED WI LAB LICENS	SF #·		NAME OF CE	EDTIEIED INI	DIVIDITAL:		L	□ POS □	,	I AD ANAL V	POS NF  YST LICENSE #:
105 -	J∟ #.		NAME OF CE	KIIFIED IN	DIVIDUAL:				CERTIFIED	LAD ANAL	751 LICENSE #.
IV. DISPOS	ITION O	F MII K									
		PROCESSI	NG 🗆	I OAD RE	JECTED & RE	TURN	FD TO SELLE	R**			
**Complete Tanker Disp					020125 4112						
						TELV	(ONLY FOR LO	AD DE IEGH	ED):	DECTINAT	TON CTATE
NAME OF SELLER CONTA	CT PERSO	in - Reporting	j piant must no	itiry suppiying	g piant iiviiviedia	NIELY.	ONLY FOR LOA	AD REJECTI	ED):	DESTINAT	ION STATE:
V. POSITIV	/E PROD	UCER SA	MPLE & T	EST DAT	Δ						
PLANT # - PATRON #:	PRODUCE				•			PRODUCE	R GRADE:	DIREC	CT SHIPPER:
									∃в	☐ YE	ES □ NO
SAMPLE COLLECTION:			AM		SAMPL	E COLI	ECTED BY - BI	MWS NAME	& LICENSE #	<u> </u>	
DATE: 1	TIME:		PM TEM	p.							
TEST STARTED:			TEST METHO		TEST K	(IT L OT	#-	TEST RESI	II T #1·	TEST	RESULT #2:
DATE: TIME	:-	☐ AM	TEGT METTI	<i>.</i>		201	<i>"</i> .		□ POS □		□ POS □ NF
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105 -	J∟ #.				OLIVIII		ID / III / IE I O I E I	DENOL #.			
	VE REC	HECK/RES	SUME SHII	PPING							
SAMPLE COLLECTION:		□ АМ			SAMPL	E COLI	ECTED BY – B	MWS NAME	& LICENSE #	<b>#</b> :	
DATE: TIME	<b>:</b> :	□РМ	TEM	P:							
TEST STARTED:		□ АМ	TEST METHO	OD:	TEST K	(IT LOT	#:		TEST RES	SULT:	
DATE: TIME	<u>:</u>	☐ PM								□ NF	<u>.</u>
CERTIFIED WI LAB LICENS	SE #:				CERTIF	FIED LA	B ANALYST LIC	CENSE #:	<u> </u>		
105 -											

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<sup>\*\*</sup>Retain a copy of form and the Tanker Milk Disposal Report for your records



Wisconsin Department of Agriculture, Trade and Consumer Protection Division of Food and Recreational Safety

PO Box 8911, Madison, WI 53708-8911

Phone: (608) 224-4683 Email: datcpleo@wisconsin.gov

# **TANKER MILK DISPOSAL REPORT**

Wis. Stat. §§ 97.20 & 97.22

Disposition of all tanker loads of milk that test positive for drug residues must be thoroughly documented. Complete this form and maintain on file at the plant.

I. BULK LOAD IDEN	ITIFICATION				
RECEIVING DAIRY PLANT:				PLANT NUMBER:	
PLANT ADDRESS/LOCATION:			CITY:		STATE:
TANKER LICENSE NUMBER:	WEIGHT OF LOAD:	LOAD NUMBER:	NAME OF H	HAULER THAT DEI	LIVERED LOAD :
□YES □NO PLANT TO PLAN	NT TRANSFER LOAD RI	EJECTED & RETURNI	ED TO SELLE	ER (If YES, fill out s	eller information)
NAME OF SELLER CONTACT PE	RSON:				
PLANT ADDRESS/LOCATION:			CITY:		DESTINATION STATE:
II. TRANSPORTATIO	ON OF MILK FOR DISI	POSAL			
DATE OF TRANSPORTATION:			TIME OF TE	RANSPORTATION:	
NAME OF HAULER (Please Print)	:		•		
SIGNATURE:					
III. DISPOSAL OF MI	LK				
NAME OF DISPOSAL SITE:					
DISPOSAL ADDRESS/LOCATION	<b>1</b> :		CITY:		STATE:
DISPOSAL METHOD  VEAL OPERATION MU OTHER (Please Explain):	INICIPAL SEWER [	□ FIELD SPREAD	☐ MANURI	E PIT	
DATE RECEIVED:			TIME RECE	EIVED:	
NAME OF PERSON RECEIVING	MILK (Please Print):		1		
SIGNATURE:					



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PLANT ADDRESS/LOCATION:			CITY:		STATE:
TANKER LICENSE NUMBER:	WEIGHT OF LOAD:	LOAD NUMBER:	NAME OF H	AULER THAT DEI	LIVERED LOAD :
☐ YES ☐ NO PLANT TO PLAI	NT TRANSFER LOAD RI	EJECTED & RETURNI	ED TO SELLE	ER (If YES, fill out s	eller information)
NAME OF SELLER CONTACT PE	RSON:				
PLANT ADDRESS/LOCATION:			CITY:		DESTINATION STATE:
II. TRANSPORTATIO	ON OF MILK FOR DISI	POSAL			
DATE OF TRANSPORTATION:			TIME OF TE	RANSPORTATION	
NAME OF HAULER (Please Print)	:				
SIGNATURE:					
III. DISPOSAL OF MI	LK				
NAME OF DISPOSAL SITE:					
DISPOSAL ADDRESS/LOCATION	1:		CITY:		STATE:
DISPOSAL METHOD  VEAL OPERATION MU  OTHER (Please Explain):	INICIPAL SEWER [	☐ FIELD SPREAD	☐ MANURE	E PIT	
DATE RECEIVED:			TIME RECE	IVED:	
NAME OF PERSON RECEIVING	MILK (Please Print):		I		
SIGNATURE:					



Wisconsin Department of Agriculture, Trade & Consumer Protection Division of Food Safety PO Box 8911, Madison, WI 53708 Telephone (608) 224-4712

# APPENDIX N ANALYST TRAINING REPORT

Wis. Stats. s. 97.22 & 97.20

1. IS		CERTIFICA <sup>-</sup>	TE EXPIRATION	DATE	
2. IS		CERTIFICAT	TE EXPIRATION	DATE	
FACILITY			PLANT #		
ADDRESS					
CITY/STATE					
FACILITY INTERNAL	AUDIT DAT	E:			
ANALYST NAME	DATE TRAINED	TEST METHOD	PROFICIENCY TEST RESULT	DATE OF PROFICIENCY	IS INITIALS

ANALYST NAME	DATE TRAINED	TEST METHOD	PROFICIENCY TEST RESULT P=PASS F=FAIL	DATE OF PROFICIENCY TEST	IS INITIALS

**Instructions**: All industry analysts must be trained and run proficiency tests at least annually. The screening facility needs to keep this original form for their records and submit a photocopy of this form, along with the <u>Internal Audit Report</u> to the address above. **Please mark the envelope to the attention of the Laboratory Evaluation Officers.** 





Wisconsin Department of Agriculture, Trade & Consumer Protection Division of Food Safety PO Box 8911, Madison, WI 53708 Telephone (608) 224-4712

# APPENDIX N ANALYST TRAINING REPORT

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1. IS		CERTIFICA	TE EXPIRATION	DATE			
2. IS	CERTIFICATE EXPIRATION DATE						
ADDRESS			<del></del>				
CITY/STATE	· · · · · · · · · · · · · · · · · · ·						
		E:					
ANALYST NAME	DATE TRAINED	TEST METHOD	PROFICIENCY TEST RESULT P=PASS F=FAIL	DATE OF PROFICIENCY TEST	IS INITIALS		

ANALYST NAME	DATE TRAINED	TEST METHOD	PROFICIENCY TEST RESULT P=PASS F=FAIL	DATE OF PROFICIENCY TEST	IS INITIALS

Instructions: All industry analysts must be trained and run proficiency tests at least annually. The screening facility needs to keep this original form for their records and submit a photocopy of this form, along with the Internal Audit Report to the address above. Please mark the envelope to the attention of the Laboratory Evaluation Officers.

# Wisconsin Appendix N Personnel Chart

			Train	Test**		Unknown/PT Samples		Evaluation	
	Screen Loads	Confirm Loads	Industry Analyst(s) (IA)	Industry Analyst(s) (IA)	Attend IS Workshop	In-house (3 unknowns)	State Provided	Internal Audit	LEO On-site
Industry Supervisor (IS) doing Reader Printer Test	X		Initial & Annual	Initial & Annual	Biennial			Annual	
Industry Supervisor (IS) doing Visual Read Test	$\mathbf{X}^*$		Initial & Annual		Biennial		Annual	Annual	Initial
Certified Industry Supervisor (CIS)	X	X	Initial & Annual	Initial & Annual	Biennial		Annual		Biennial
Industry Analyst (IA) doing Reader Printer Test	X					Initial & Annual			
Industry Analyst (IA) doing Visual Read Test	$\mathbf{X}^*$						Annual		Initial
<u>Certified</u> Analyst (CA)	X	X					Annual		Biennial

## <u>Certified</u> Analysts and <u>Certified</u> Industry Supervisors MUST work at a Certified Lab

\*NOTE: Industry Supervisor (IS) or Industry (IA) doing a Visual Read Test must pass an on-site evaluation by an LEO **before** screening any loads of milk.

\*\*NOTE: Certified Industry Supervisor (CIS) or Industry Supervisors doing Reader Printer test (IS) must create at least 3 unknown samples for only **non-certified** Industry Analyst(s) doing Reader Printer test (IA)

### Visual Read Test

- Delvotest P mini
- Delvotest 5 Pack
- Charm BsDA

### Reader Printer Test

- Charm SL, 3 SL3, BL30SEC
- Charm Tetra, Sulfa, TRIO
- Idexx SNAP BL & Tetra
- Charm II