APPENDIX N BULK MILK TANKER SCREENING TEST FORM GENERAL REQUIREMENTS

[Unless otherwise stated all tolerances ±5%]

1. Work Area

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	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.	Stor	rage Space
	a.	Cabinets, drawers, and shelves adequate
	b.	Areas neat, clean and orderly
3.	Ten	nperature 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
		1. 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
		2. 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.	Accuracy of all test temperature measuring devices checked before initial 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.		nperature measuring devices are to be read to the nearest graduation/ ording interval, optionally labs may interpolate between graduations	
e.	Temperature 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	
		 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.	Automatic temperature recording instruments, if used, compared weekly against an accurate thermometer; maintain records		
g.	Temperature measuring device(s) checked for accuracy at another location		
	1.	Location:	
	2.	Current and acceptable	
	3.	Copy of record on-site	
h.	Dial	I thermometers not used in the laboratory	

4.	4. Refrigeration (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
		1. Not to be used to store food or drink for consumption
	d.	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]
	e.	Temperature measuring devices located on upper and lower shelves of use
5.	Free	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
		1. 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]
6. Balance, Electronic (if necessary)		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)
		1. Certificate or other verification of authenticity
		2. 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:
		2. 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
		2. PCS Pipette System Quality Control
		a. Following manufacturer's Procedure Guide and instrument prompts, perform an instrument calibration every 30 days or just prior to use
		b. Record results and file Calibration Certificate (printout)

	3.	Store reagent kits and Instrument C	alibrator kits at room temperature	
		Lot #: Exp. Date	·	
	4.	Reagent Blanks and Sample Solution	ons are the same lot	
	5.	PCS Pipette Calibration System Pro manufacturer's Procedure Guide an		
i.	Mair	ntain records		
Deio	onize	ed Water or Equivalent, or as speci	fied by manufacturer	
		SAM	PLES	
San	nple F	Requirements		
a.	Арре	endix N tanker sample(s)		
	1.	Prevent contamination with disinfec	tants from hands or other sources	
	2.	Ascertain temperature of bulk milk t	anker; maintain records	
	3.	Secure a representative sample for without delay then a temperature co the same time, transported, and ma until it is tested	ntrol (TC) sample must be taken at	
	4.	Tanker sample(s) tested promptly u (date and time recorded)	pon arrival at the testing location	
		a. Determine sample temperature thermometer (pre-cooling of el probes is not necessary) into te	ectronic/digital thermometer	
		b. Temperature of bulk milk tanke as received and tested if samp	er may be used for temperature le testing begins without delay	
b.	cond	endix N Producer Trace Back Sampl ditions outlined below may still be tes will document the condition of the sa	ted. The certified laboratory or	
	1.	Samples should be accompanied by If no TC, aliquot sample(s) for testin using one of the producer samples		
	2.	Sample(s) should not be leaking		
	3.	Tops of samples should be protecte	d from direct contact with ice	

8.

9.

4. Unprotected samples should not be submerged in water and/or ice or slush

PERFORMANCE TESTING

10. Performance 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 **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
- 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. 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
- c. If one or both duplicates is positive the tanker sample is **PRESUMPTIVE POSITIVE** 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 **NOT FOUND**

	f.	Complete applicable section of Positive Report form and maintain records of all analyses	
		1. 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)	
		1. 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 CONFIRMED POSITIVE , 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 NOT FOUND , producer trace back is not performed	
	f.	Complete applicable section of Positive Report form and maintain records of all analyses	
		1. For Confirmed Positive samples, maintain a copy of the Positive Report form and forward the original to the State Regulatory Agency	
13.	[Onl	e back of Producers on a Confirmed Positive Tanker y performed in an accredited laboratory or by a CIS (refer to M-a-85 ent 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 SAME sample is re-tested by the SAME analyst using the SAME test in DUPLICATE along with a positive and negative control	
	e.	Positive and negative controls give the appropriate result(s)	
		1. If positive and/or negative control do not give appropriate results, re-run controls and samples, if problem persists seek technical assistance	

- If one or both duplicates is positive the producer sample(s) is (are) f. POSITIVE If both duplicates are negative record and report the appropriate g. producer sample(s) NOT FOUND Complete applicable section of Positive Report form and maintain records h. of all analysis 1. 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. Reporting and Records Report as **Positive (+)** for beta-lactam, specific drug or inhibitor (when a a. non-specific microbial inhibitor test used without beta-lactamase) when demonstrated Report as Not Found (NF) when demonstrated b. Record test performed, interpretation of unknowns (samples) and controls C. d. Records, including all printouts, maintained for 2 years **MISCELLANEOUS** 15. Miscellaneous Current Safety Data Sheets (SDS) accessible to analysts a. Current, applicable survey forms available in laboratory b. Positive Report forms available with instructions C. d. Personnel adequately trained
 - e. Required split/check sample participation