

APPENDIX N BULK MILK TANKER SCREENING TEST FORM

IDEXX - New SNAP® BETA LACTAM

For Raw Bovine Milk

GENERAL REQUIREMENTS

1. See Appendix N General Requirements form items 1-8 & 15 \_\_\_\_\_

SAMPLES

2. See Appendix N General Requirements (GR) form item 9 \_\_\_\_\_

APPARATUS & REAGENTS

3. Equipment \_\_\_\_\_

- a. Heater block with SNAP inset thermostatically controlled at 45±5C \_\_\_\_\_
1. Temperature checked by placing standardized thermometer in tube containing liquid (bulb submersed) in heating unit, records maintained \_\_\_\_\_
2. Or, use 6 inch partial immersion thermometer placed directly into small thermometer well in middle of heating unit, records maintained \_\_\_\_\_
- b. Single use 450 µL pipet with indicator line to measure amount of sample, supplied by manufacturer (**screening only**) \_\_\_\_\_
- c. Fixed volume pipettor to dispense 450 µL (see App. N GR item 7) \_\_\_\_\_
- d. SNAP Kit \_\_\_\_\_
- Lot # \_\_\_\_\_ Exp Date \_\_\_\_\_
- e. Sample tubes containing reagent pellet \_\_\_\_\_
- f. Kits received refrigerated \_\_\_\_\_
- g. Store kits at 0-7C \_\_\_\_\_
- h. Timer \_\_\_\_\_
- i. IDEXX Reader for SNAP devices, with printer or data download capability \_\_\_\_\_

4. Controls [**FROZEN STANDARDS NOT ALLOWED**] \_\_\_\_\_

- a. Non frozen positive control only, 5.0 ppb Penicillin G \_\_\_\_\_

- b. Store according to label instructions \_\_\_\_\_  
Mfg. \_\_\_\_\_ Lot # \_\_\_\_\_ Exp. Date \_\_\_\_\_ \_\_\_\_\_
- c. Re-hydrate as per manufacturer's instructions \_\_\_\_\_
- d. Test for suitability each time prepared, must produce appropriate reaction, records maintained \_\_\_\_\_
- e. Store control at 0 - 4.4C for no more than 2 days. **Do not freeze** \_\_\_\_\_

**5. Inhibitor Free Raw Milk (Negative Control)** \_\_\_\_\_

- a. Test for suitability each time prepared, must produce appropriate reaction; records maintained \_\_\_\_\_

**TECHNIQUE**

**6. Daily Performance and Operation Check (see App. N GR item 10)** \_\_\_\_\_

- a. Read positive and negative check set devices. Both devices must read within the limits on the check set devices \_\_\_\_\_

Positive Range \_\_\_\_\_ Negative Range \_\_\_\_\_

If check sets fail, call IDEXX before proceeding \_\_\_\_\_

**7. Test Procedure** \_\_\_\_\_

- a. Set out required number of SNAP™ devices, sample tubes and pipets for the samples to be tested. Discard unused, un-refrigerated devices at the end of the day \_\_\_\_\_
- b. Pre-warm heater block(s) to 45±5C, hold at 45C for at least 5 minutes \_\_\_\_\_
  - 1. Check initial pre-heating with a reference thermometer, records maintained \_\_\_\_\_
  - 2. Continuous use block heaters, check temperature daily with reference thermometer, records maintained \_\_\_\_\_
- c. Label each device and each sample tube \_\_\_\_\_
- d. Place devices on incubator block(s) \_\_\_\_\_
- e. Mix samples/controls by shaking 25 times in 7 sec through 1 ft arc, use within 3 minutes \_\_\_\_\_
- f. Look for blue reagent pellet in bottom of tube, if not there tap to bring pellet down \_\_\_\_\_

- g. Remove and discard sample tube caps \_\_\_\_\_
- h. With pipets provided, draw up controls or samples (Draw up, avoiding foam and bubbles, expel and draw up again) to the indicator lines and carefully add all of the control or sample milk to the appropriately labeled tubes. (**Screening only**) \_\_\_\_\_
- i. Or, using fixed volume pipettor (item 3c), draw up 450  $\mu$ L of controls and samples (draw up, avoiding foam and bubbles, expel and draw up again) and carefully add to the appropriately labeled tubes \_\_\_\_\_
- j. Use clean pipet (or tip) for each control and sample \_\_\_\_\_
- k. Agitate sample tube to dissolve reagent pellet \_\_\_\_\_
- l. Incubate tube(s) in heater block next to device with the corresponding ID \_\_\_\_\_
- m. Incubate tubes for 5 minutes (use timer) at 45 $\pm$ 5C \_\_\_\_\_
- n. After incubation, pour contents of tubes into sample well of device \_\_\_\_\_
- o. Watch blue activation circle, as it **begins** to become white push the Activator firmly until it "snaps" flush with the body of the SNAP™ device (device remains on heater block) \_\_\_\_\_
- p. Incubate device for 4 minutes (use timer) at 45 $\pm$ 5C \_\_\_\_\_
- r. Read **IMMEDIATELY** with IDEXX Reader for SNAP devices \_\_\_\_\_

## 8. Interpretation \_\_\_\_\_

- a. The control spot is on the top and the test spot on the bottom of the Results Window (Correct orientation is with activator button to right and sample well to left) \_\_\_\_\_
- b. Negative result: \_\_\_\_\_
  - 1. If test spot is darker than or equal to the control spot, sample is **Negative (NF)** \_\_\_\_\_
- c. Positive result: \_\_\_\_\_
  - 1. If test spot is lighter than control spot, sample is **Initial Positive** \_\_\_\_\_
- d. IDEXX Reader for SNAP devices automatically prints results as **Positive** (initial) or **Negative (NF)** \_\_\_\_\_

9. Verification of Initial Positive Samples (see App. N GR item 11); Confirmation of Presumptive Positive Samples (see App. N GR item 12); and Producer Trace-Back (see App. N GR item 13)

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10. Reporting (see App. N GR item 14)

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