AMOXI-DROP WATER PREPARATION

PERFORMANCE STANDARD: Mice and Rats that require antibiotic water for infections and/or wounds based upon treatment protocol.

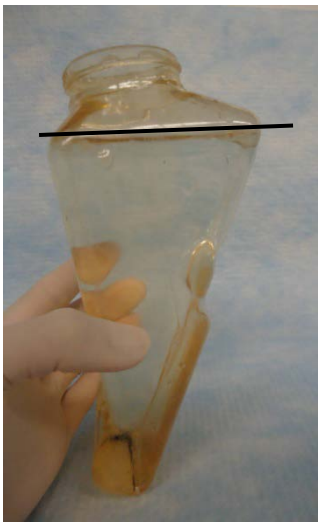
SUPPLIES: Amoxicillin (amoxicillin trihydrate), 1/4th teaspoon measuring spoon (1/4 tsp), and water bottle (375 mL).

PROCEDURE:

- Briefly shake the bottle of Amoxicillin to mix up the powder.
- In an ATS or BSC, transfer 1/4th tsp (level) of Amoxicillin powder into a water bottle that is filled to the shoulders.

1/4th Teaspoon – filled level or flat

Water bottle filled to the shoulders



- Cap the water bottle and invert to mix thoroughly.
- Place bottle in wire feeder inside of cage. Water valve should be removed from the rack and placed in container/bag in room.
- Write “Amoxicillin water” and expiration date next to the ‘Special Water’ section of a Water Exemption Card and place it in the cage card holder.
- Label the pink sick injured card with water contents and amount of Amoxicillin used (1 level scoop = ¼ tsp).
- With a black wet-erase marker, update the required information on the ‘back of door’ sheet.
- The Amoxicillin water expires 7 days from date it is mixed.

Dose Notes:

- A non-reconstituted bottle of Amoxicillin contains 75.0 grams of powder. Of that, 7.5 grams (10%) is antibiotic powder and 67.5 grams (90%) are sweeteners and flavoring powder.
- The goal weight of powder to be transferred by each ¼ teaspoon is 1.0 grams.
- Once diluted with 375 mL, the final concentration is 0.26 mg/mL of antibiotic H_2O.
    - If a 25 gram mouse drinks 5 mL/day, the amoxicillin dose to the animal is about 50 mg/kg.
    - If a 300 g rat drinks 30 mL/day, the amoxicillin dose to the animal is about 25 mg/kg.

Mouse cage with amoxicillin-medicated water bottle in place

Second photo with cage top removed to better see the bottle