

STANDARD SOLUTIONS FOR FECAL EXAMINATIONS

Saturated Sodium Nitrate (Sp Gr 1.400)

910 grams (1 lb. 12 oz.) to 1000 ml distilled water
(Add 25-30 grams more to assure saturation after dissolving original amount.)

Zinc Sulfate (Sp Gr. 1.18-1.20)

331 grams to 1000 ml distilled water

Saturated Zinc Sulfate (Sp Gr 1.38)

1000 grams to 1000 ml distilled water

33% Magnesium Sulfate (Sp Gr 1.285)

400 grams to 1000 ml distilled water

Saturated Sodium Chloride (Sp Gr. 1.200).

360 grams (12 oz.) to 1000 ml distilled water
(Add extra NaCl to assure saturation.)

Wisconsin Sugar Levitation Solution (Sp. Gr. 1.27)

Materials:

Granulated sugar
500 gm. (1 lb. avoirdupois)

Tap water
360 ml. (12 fluid oz.)

Liquified phenol crystals (as a preservative and mold preventative) 6 ml. (1.8 fluid dr.)

Bello (Modified Kentucky Experiment Station) Sugar (Sp. Gr. 1.20)

1200 grams of sugar dissolved in 1400 ml of boiling water
Add 2 ml. of conc. Phenol to control mold

To Reduce Potential Sources of Error due to Levitation Solutions:

1. Always maintain crystals on the bottom of the stock bottle of NaNO_3 , ZnSO_4 and NaCl solutions to assure constantly saturated solution. Remember: temperature change and evaporation alter the saturation point.
2. After mixing fresh stock solution, allow it to stand for at least 24 hours before using.

Source: Langston University