Dedicated to a Better Way of Life through Plants™

PhytoTechnology Laboratories, Inc.

Product Information Sheet

PREPARATION AND USE OF VITAMIN MIXTURES

Powdered vitamin mixtures are hygroscopic and must be protected from atmospheric moisture. The entire contents of each package should be used immediately after opening. The basic steps for preparing 1000X concentrated solutions with vitamin mixtures are listed below:

- 1. Measure out 70% of the final required volume of deionized-distilled water (e.g. 70 ml for a final volume of 100 ml)
- 2. While stirring the water add the powdered vitamin mixture. Stir until completely dissolved. Increasing the pH and/or warming solution (35-37°C) may be required.
- 3. Rinse the original container with a small volume of water to remove traces of the powder. Add to the solution in Step No. 2.
- 4. Add additional water to bring the medium to the final volume.
- 5. The resulting 1000X concentrated solution should be used at a concentration of 1 ml/L of medium.
- 6. Follow the same steps to prepare a 100X concentrated solution and use at 10 ml/L of medium.

VITAMIN SOLUTIONS

- 1. The vitamin solutions are sterile filtered through a double 0.2 μ m filtration unit and are ready for use.
- 2. Vitamin solutions should be added at a concentration of 1 ml/L of medium to prepare the final recommended concentration of vitamins in the medium.

MATERIALS NOT PROVIDED

BASAL MEDIA AND ADDITIVES AS REQUIRED

Deionized tissue culture grade water

1 N Hydrochloric Acid (Product No. H 245)

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- 1 N Sodium Hydroxide (Product No. S 835)
- 1 N Potassium Hydroxide (KOH) (Product No. P 682)

VITAMIN MIXTURES AND SOLUTIONS ARE FOR LABORATORY USE ONLY. NOT FOR DRUG, HOUSEHOLD, OR OTHER USES.

STORAGE

Store vitamin mixtures and solutions in a refrigerator at 0-5°C. Precipitation in vitamin solutions may occur during storage. This can be re-dissolved by warming the solution in a water bath (35-37°C) for a short period of time.

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