



MEDIA PREPARATION FROM BASAL SALT SOLUTIONS

Liquid 10X solutions are offered for your convenience. To avoid precipitation over long-term storage, *PhytoTechnology Laboratories* has formulated two solutions which when mixed at the proper dilution make a solution with the appropriate salt concentration. The basic steps for preparing 1 liter of culture medium are listed below.

CAUTION: Do not autoclave product in bottle. The bottle is **NOT** autoclavable.

1. Measure out approximately 700 ml of tissue culture grade water.
2. While stirring the water, add 100 ml of Macronutrient Solution (Product No. M 654)
3. Continue stirring the mixture while adding 100 ml of Micronutrient Solution (Product No. M 529)
4. Add desired heat stable supplements (e.g. sucrose, gelling agent, vitamins, auxins, cytokinins, etc.)
5. Add additional tissue culture grade water to bring the medium to the final volume.
6. While stirring, adjust medium to desired pH using NaOH, HCl or KOH.
7. If gelling agent is used, heat until the solution is clear.
8. Dispense the medium into the culture vessels before (or after) autoclaving according to your application. Add heat labile constituents after autoclaving.
9. Sterilize the medium in a validated autoclave at 1 kg/cm² (15 psi), 121°C, for the time period described under Sterilization of Media.
10. Allow medium to cool prior to use.

BASAL SALT SOLUTIONS ARE FOR LABORATORY USE ONLY. NOT FOR DRUG, HOUSEHOLD, OR OTHER USES.

MATERIALS NOT PROVIDED

Deionized tissue culture grade water

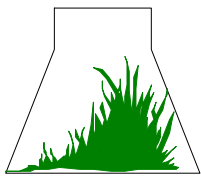
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Product Information Sheet

1 N Hydrochloric Acid (Product No. H 245)

1 N Sodium Hydroxide (Product No. S 835)

1 N Potassium Hydroxide (KOH) (Product No. P 682)

Medium additives as required

STORAGE

Store basal salt at 0-5°C. Deterioration of basal salt solutions may be recognized by: 1) color change; 2) pH change; 3) precipitation of components; or 4) inability to promote growth when properly used.

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