

TECHNICAL DATA SHEET

Plant Media Powder Preparation

Plant Media Powder is extremely hygroscopic and must be protected from atmospheric moisture. If possible, the entire contents of each package should be used immediately after opening.

Steps for preparing Plant Culture Medium:

1. Measure out approximately 90% of the final required volume of Molecular Biology Grade Water (i.e. 900 ml for a final volume of 1000 ml). Select a container twice the size of the final volume.
 2. While stirring the water, add the powdered medium, and stir until completely dissolved. Heating may be required to bring powders into solution.
 3. Rinse the original container with a small volume of Molecular Biology Grade Water to remove traces of powder. Add to the solution in Step 2.
 4. Add desired heat stable supplements (e.g. sucrose, gelling agent, vitamins, auxins, cytokinins, etc.)
 5. Add additional Molecular Biology Grade Water to bring the medium to the final volume.
 6. While stirring, adjust medium to desired pH using NaOH, HCl or KOH. (If a gelling agent is used, heat until solution is clear before autoclaving.
 7. Dispense the medium into culture vessels before (or after) autoclaving according to your application.
 8. Sterilize at 15 psi, 121 °C, for 15 minutes. Add heat labile constituents after autoclaving.
- Allow medium to cool prior to use.