CM 23371 – WEST VACO WU5 MEDIUM (for Embryogenic Culture)

INTENDED USE

Supports or facilitate plant growth and/or shoot proliferation in two or more plant tissue cultures (both in monocotyledons and dicotyledons).

COMPOSITION

Ingredients	Mg / Ltr
Boric acid	31.00
Cobalt chloride.6H_2O	0.025
Cupric sulphate.5H_2O	0.25
Ferric EDTA sodium	36.71
Potassium iodide	0.83
Manganese sulphate.H_2O	15.16
Sodium molybdate (Dihydrate)	0.250
Zinc sulphate.7H_2O	8.60
Calcium Chloride	452.88
Potassium chloride	718.67
Potassium dihydrogen phosphate	270.00
Magnesium sulphate	903.79
Ammonium Nitrate	700.00
Potassium nitrate	1084.06
Myo-Inositol	1000.00
Thiamine HCl	0.40

Formula weight: 29.63 gms/ltr

QUALITY CONTROL SPECIFICATIONS

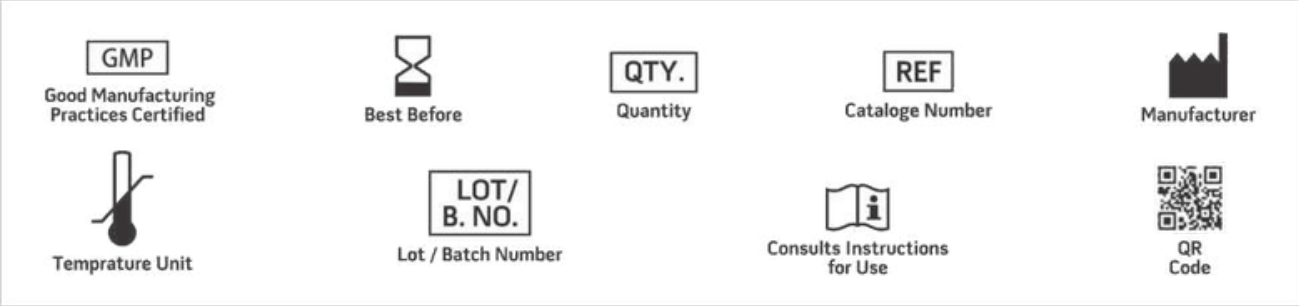
Appearance of Powder : White to light tan with homogenous mixture of free flowing powder.
Appearanceofprepared medium : Colourless to slight yellow solution, clear, completely soluble.
pH(at 25°C) : 4.8 ± 0.2

INSTRUCTION FORUSE

Dissolve 5.22 gms of dehydrated medium in 600ml of distilled or deionized water at room temperature (15 - 30°C). Rinse media vial with small quantity of distilled water to remove traces of powder. Add the desired heat stable supplements prior to autoclaving. Continue stirring until the powder has dissolved. Sometimes media does not dissolve completely unless the pH is reduced. For these, lower the pH to about 3.0 to facilitate dissolution of media. The pH of medium is adjusted by using 1N HCL/ 1N NaOH/ 1N KOH. Make up the final volume to 1000ml with distilled water. Mix gently, heat and rotate between intervals until the solution becomes clear. Do not boil, reheat and allow cooling below 50°C during dispensing. Dispense the medium into suitable containers, plug or cap, then autoclave at 15psi (121°C) for 15 minutes, using a slow exhaust cycle. Higher temperatures and/or longer times are not recommended. Cool the autoclaved culture vessels containing medium to 45-50°C and aseptically add desired sterile heat- labile substrate.
Note: Media should be prepared according to formula mentioned on the label however, it is recommended to use an entire container at once. Heat-labile substrates should be added, after autoclaving.

STORAGE

Dehydratedplant tissue culture media is hygroscopic and should be protected from sunlight and moisture. Store the prepared medium at 2–8°C away from direct light. Medium should be used before the expiry date. The entire volume of each bottle should be used immediately after opening or else the unused portion should be stored in desiccators and refrigerated at 2–8°C.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*For LabUse Only