CM 23064 – BANANA MULTIPLICATION MEDIUM (W/CaCl, Vitamins, Sucrose, 2 Glucose, Ascorbic Acid, IAA, 6-BAP, Agar)

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
Cobalt chloride (Hexa hydrate)	0.025
Copper sulphate (Penta hydrate)	0.025
Boric acid	6.200
Na2EDTA (Dihydrate)	37.260
Sodium molybdate (Dihydrate)	0.250
Potassium iodide	0.830
Zinc sulphate (Hepta hydrate)	8.600
Ammonium nitrate	1650.000
Potassium nitrate	1900.000
Ferrous sulphate (Heptahydrate)	27.80
Manganese sulphate (Monohydrate)	16.900
Magnesium sulphate	180.69
Calcium chloride (Dihydrate)	440.00
Potassium phosphate (Monohydrate)	170.000
L-Ascorbic acid	20.000
6-Benzylaminopurine	4.500
Indole-3-acetic acid	0.18
Glycine	2.000
Nicotinic acid	0.500
Pyridoxine HCl	0.500
Thiamine HCl	0.400
Sucrose	30000.000
Agar	8000.000
Glucose	2.000

Formula weight: 42.47 gms/ltr

QUALITY CONTROL SPECIFICATIONS

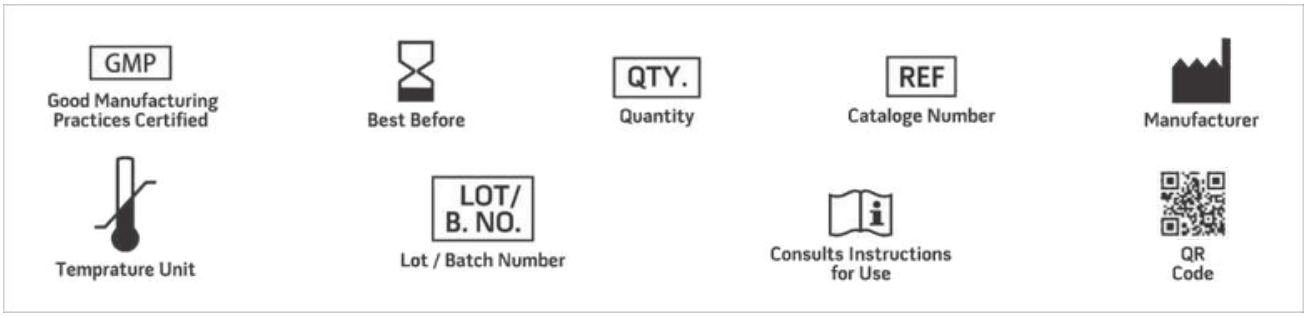
Appearance of Powder : White to light tan with homogenous mixture of free flowing powder.
Appearanceofprepared medium : Colorless to slight yellow solution, clear, complete.
pH(at 25°C) : 5.8 ± 0.2

INSTRUCTION FORUSE

Dissolve42.47gms of dehydrated medium in 600 ml 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 to cool 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.