

Technical Information

Morel & Wetmore Vitamins Solution (100X)

Product Code: PL1035

Composition**

Ingredients	mg/10ml
myo-Inositol	100.00
Thiamine hydrochloride	1.00
Pyridoxine hydrochloride	1.00
Nicotinic acid (Free acid)	1.00
Biotin	0.10
Ca-pantothenate	1.00
TOTAL gm/10ml	0.10

Principle And Interpretation

Morel & Wetmore vitamins (100X) is a filter sterilized stock solution. The stock contains vitamins as described by Morel & Wetmore. Add 10ml per litre of vitamins stock solution to the prepared medium to achieve the desired concentration.

Directions

Measure out approximately 600ml of distilled water. While stirring the water, add 10ml of vitamins solution. Add desired heat stable supplements prior to autoclaving. Adjust the medium to the desired pH using 1N HCl/NaOH. Make up the final volume to 1000ml with distilled water. Sterilize the medium by autoclaving at 15 lbs or 121°C for 15 minutes. Cool the autoclaved medium to 45°C before adding the filter sterilized heat labile supplements. Dispense the desired amount of medium in sterile culture vessels.

Quality Control

Appearance : Colourless to yellow, clear solution.
pH : 3.7 ±0.5 (under observation) of 50ml vitamins stock solution.
Sterility : No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural Response :

Cultural condition :

- Incubation period : 5 weeks
- Relative humidity : 60% ± 2%
- Temperature : 22°C ± 2°C
- Photoperiod (D:N) in hours : 16:8

Cell Line	Types Of Culture	Results
<i>Musa</i> species	Shoot culture	No structural deformity observed No necrotic tissues, Actively growing shoots, No toxicity to shoots
<i>Daucus</i> species culture	Callus	No necrotic tissues, Actively growing callus, No toxicity to callus

[The medium is prepared as per direction. The growth promoting activity of this vitamins stock solution is evaluated using two plant species viz. *Musa* species and *Daucus* species through three passages. Plant growth hormones (e.g. 2,4-D, NAA, Kinetin and 6-BAP) are added in suitable combinations and concentrations.]

Storage and Shelf Life

Store the vitamins stock solution at 2-8°C away from direct light. If possible, the content of each bottle should be used aseptically after opening and the unused portion should be stored at 2-8°C. Avoid contaminating the liquid. Use before the expiry date.

Further Reading

- Morel G. & Wetmore R.M. (1951), Fern callus tissue culture, Am. J. Bot. 38, 141-143

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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