



Technical Information

Rugini Olive Vitamins (100X)

Product Code: VP1027

Application: Rugini Olive vitamins (100X) powder is ready to use mixture of vitamins and amino acid whichis sufficient to prepare 100 litres of medium from content of one vial. The vial contains 10.86 gm of powdered vitamin mixture.

Composition**

Ingredients	mg/Litre
myo - Inositol	100.00
Thiamine hydrochloride	0.50
Pyridoxine hydrochloride	0.50
Nicotinic acid (Free acid)	5.00
Folic acid (Free acid)	0.50
Biotin	0.05
Glycine (Free base)	2.00
TOTAL gm/litre	0.11

Methodology

Suspend 0.11 grams of dehydrated vitamins powder# in 600ml of distilled water. Apply constant gentle stirring to the solution till the powder dissolves completely. Add desired heat stable supplements prior to autoclaving. Adjust the medium to the desired pH using 1N HCI/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 aseptically in sterile culture vessels.

Weight after vacuum drying to remove all water.

Quality Control

Appearance

Light yellow to yellow, homogeneous, free flowing powder.

Solubility

10.86 gm/litre soluble in distilled water.

Colour and clarity

Light yellow to yellow, slight hazy solution.

pH at 25°C:

 3.8 ± 0.5 (under observation) of 1.086% w/v dehydrated powdered vitamins mixture.





Product Specification

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Cultural Response

Cultural condition:

Incubation period : 5 weeks
Relative humidity : $60\% \pm 2\%$ Temperature : $22^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Photoperiod (D:N) in hours : 16:8

Cell Line Type of Culture

Musa species Shoot culture No structural deformity observed

No necrotic tissues,
Actively growing shoots,
No toxicity to shoots

Results

Daucus species Callus culture No necrotic tissues,

Actively growing callus, No toxicity to callus

[The medium is prepared as per direction. The growth promoting activity of this vitamin mixture 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

Powdered vitamin mixtures are very hygroscopic and must be protected from atmospheric moisture. It is advisable to use the entire contents of vial immediately after opening. In case of unused powder should be stored in desiccator and refrigerated at 2-8°C.

Use before the expiry date.

Reference

- 1. Rugini E., Scientia Horticulturae, (1984), 24, 123 134.
- 2. Rugini E., Jacoboni A. & Luppino M., Scientia Horticulturae, (1993), 53, 63 72.

Disclaimer :

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