



Technical Data

Linsmaier & Skoog Macroelements Solution (10X)

PL009

Composition :

Ingredients	milligrams/1000ml
Potassium nitrate	19000.00
Ammonium nitrate	16500.00
Calcium chloride.2H ₂ O	4400.00
Magnesium sulphate	1806.90
Potassium phosphate monobasic	1700.00
TOTAL	43.41 gm/1000ml

Directions : Use 100ml per litre of macroelements stock solution.

Quality Control : Appearance : Colourless to yellow, clear solution.
pH : 4.0 ±0.5 of 100ml macroelements stock solution.

Cultural Response : Growth promoting activity of solution is assessed after addition of this product in complete medium using shoot tips, nodes or callus for 5 weeks at 25°C ±2°C with 16 hrs photoperiod and 8 hrs darkness. Actively growing shoots and callus is observed.

Sterility : No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Storage Temperature & Shelf Life : Store product at 2-8°C away from bright light. Shelf life of product is 13 months. Use before expiry date.

Reference : Linsmaier E.M. & Skoog F., *Physiol. Plant.*, (1965), 18, 100 - 127.

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