

## Murashige & Skoog Microelements Solution (100X)

PL012

### Composition :

Ingredients	milligrams/1000ml
Manganese sulphate.H <sub>2</sub> O	1689.70
Boric acid	620.00
Potassium iodide	83.00
Molybdic acid (sodium salt).2H <sub>2</sub> O	25.00
Zinc sulphate.7H <sub>2</sub> O	860.00
Copper sulphate.5H <sub>2</sub> O	2.50
Cobalt chloride.6H <sub>2</sub> O	2.50
Ferrous sulphate.7H <sub>2</sub> O	2780.00
EDTA disodium salt.2H <sub>2</sub> O	3730.00
<b>TOTAL</b>	<b>9.79 gm/1000ml</b>

**Direction :** Use 10ml/L of microelements stock solution

**Quality Control :** Appearance : Colourless to yellow, clear solution.  
pH : 2.5 ±0.5 of 100ml microelements 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 24 months. Use before expiry date.

**Reference :** Murashige T. & Skoog F., Physiol. Plant., (1962), 15, 473 - 497.

Revision 02/2024

### Disclaimer :

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Address : C-40, Road No.21/Y, MIDC, Wagle Ind. Area, Thane(W) - 400604, Maharashtra, India. Phone:+91-022-6147 1919, 6903 48  
00 Fax:+91-022-6147 email : info@himedialabs.com. Visit us at our website: www.himedialabs.com