

Technical Information

Gamborg B5 Microelements Solution

Product Code: PL1004

Composition**

| Ingredients | mg/Litre |
|---|-----------------------|
| Manganese sulphate.H ₂ O | 1000.00 |
| Boric acid | 300.00 |
| Potassium iodide | 75.00 |
| Molybdic acid (sodium salt).2H ₂ O | 25.00 |
| Zinc sulphate.7H ₂ O | 200.00 |
| Copper sulphate.5H ₂ O | 2.50 |
| Cobalt chloride.6H ₂ O | 2.50 |
| Ferrous sulphate.7H ₂ O | 2780.00 |
| EDTA disodium salt.2H ₂ O | 3730.00 |
| TOTAL | 8.11 gm/1000ml |

Directions

Use 10 ml per litre of microelements stock solution.

Quality Control

Appearance

Colourless to yellow, clear solution.

pH

2.3 ±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.

Further Reading

Gamborg O.L, Miller R.A. & Ojima K., Exp. Cell Res., (1968), 50, 151.

Storage Temperature and Shelf Life

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

Disclaimer

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