

## Murashige Skoog (MS) Basal Medium

### Introduction

ECALBIO produce MS-Medium very popular standard materials which is used for a wide range of plant species. Contains macroelements, microelements and vitamins such as described by MURASHIGE & SKOOG.

### Micronutrients

|                                                        |              |
|--------------------------------------------------------|--------------|
| Potassium dihydrogenphosphate $\text{KH}_2\text{PO}_4$ | 170.0mg / L  |
| Calcium chloride $\text{CaCl}_2$                       | 440.0mg / L  |
| Ammonium nitrate $\text{NH}_4\text{NO}_3$              | 1650.0mg /mL |
| Potassium nitrate $\text{KNO}_3$                       | 1900.0mg / L |
| Magnesium sulfate $\text{MgSO}_4$                      | 370.0mg / L  |

### Organic substances

|                |             |
|----------------|-------------|
| Glycine        | 2.0mg / L   |
| Myo-inositol   | 100.0mg / L |
| Nicotinic acid | 0.50mg /mL  |
| Pyridoxine HCl | 0.50mg / L  |
| Thiamine HCl   | 0.10mg / L  |

### Micronutrients

|                                                                                |             |
|--------------------------------------------------------------------------------|-------------|
| Copper (II) sulfate pentahydrate $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$     | 0.025mg / L |
| Cobalt(II)chloride hexahydrate $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$       | 0.025mg / L |
| NaEDTA                                                                         | 37.30mg /mL |
| Ferrous sulfate $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$                      | 27.80mg / L |
| Boric acid $\text{H}_3\text{BO}_3$                                             | 6.200mg / L |
| Potassium iodide KI                                                            | 0.830mg/L   |
| Manganese(II)sulfatemonohydrate<br>$\text{MnSO}_4 \cdot \text{H}_2\text{O}$    | 22.30mg/L   |
| Sodium molybdate dihydrate $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$ | 0.250mg/L   |
| Zinc sulfate Heptahydrate $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$            | 8.600mg/L   |

### References

Murashige, T & F. Skoog. 1962. A revised medium for rapid growth and bioassays with tobacco tissue cultures.

### Specification

250g, 500g, 1000kg.

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