

## Murashige and Skoog (MS) Modified Medium

**Description:** Contains Macronutrients and Micronutrients as described by Murashige & Skoog (1962) but with half concentration of Ammonium nitrate, potassium nitrate and Calcium chloride. Sucrose, cytokines and auxins should be added as needed.

**Media Concentration:** 2.39 g/L

Components	mg/L
Micronutrients	
Boric acid	6.2
Cobalt chloride hexahydrate	0.025
Cupric sulfate pentahydrate	0.025
Manganese sulfate monohydrate	16.9
Potassium iodide	0.83
Sodium molybdate dihydrate	0.25
Zinc sulfate heptahydrate	8.6
Ferris sulfate heptahydrate	27.8
Sodium EDTA dihydrate	37.26
Macronutrients	
Calcium chloride anhydrous	166.1
Magnesium sulfate anhydrous	180.7
Potassium phosphate monobasic	170
Potassium nitrate anhydrous	950
Ammonium nitrate anhydrous	825

