

INGREDIENTS

M70300, M70800 MURASHIGE & SKOOG MEDIUM, INCLUDING MES BUFFER

MICRO ELEMENTS

CoCl ₂ ·6H ₂ O	0.025 mg/l	0.11 μM
CuSO ₄ ·5H ₂ O	0.025 mg/l	0.10 μM
FeNaEDTA	36.70 mg/l	0.10 mM
H ₃ B ₃	6.20 mg/l	0.10 mM
KI	0.83 mg/l	5.00 μM
MnSO ₄ ·H ₂ O	16.90 mg/l	0.10 mM
Na ₂ MoO ₄ ·2H ₂ O	0.25 mg/l	1.03 μM
ZnSO ₄ ·7H ₂ O	8.60 mg/l	29.91 μM

MACRO ELEMENTS

CaCl ₂	332.02 mg/l	2.99 mM
KH ₂ PO ₄	170.00 mg/l	1.25 mM
KNO ₃	1900.00 mg/l	18.79 mM
MgSO ₄	180.54 mg/l	1.50 mM
NH ₄ NO ₃	1650.00 mg/l	20.61 Mm

VITAMINS

Glycine	2.00 mg/l	26.64 μM
myo-Inositol	100.00 mg/l	0.56 mM
Nicotinic acid	0.50 mg/l	4.06 μM
Pyridoxin HCl	0.50 mg/l	2.43 μM
Thiamine HCl	0.10 mg/l	0.30 μM

BUFFER

MES	500.00 mg/l	2.35 mM
	4905.19 mg/l	

To prevent acidification of the medium during cultivation in this formulation of Murashige and Skoog medium MES (2-(MorpholinoEthaneSulfonic Acid) has been added in a concentration of 500 mg/l. Applied as a buffer in plant tissue culture media MES is non toxic for plant tissue and plant cells and makes almost no interactions with inorganic cations as being present in the medium. MES is an excellent buffer for use in Plant Tissue Culture media because of high buffer capacity and it's pH range of 5.5-6.7.

M70300 MURASHIGE & SKOOG MEDIUM with MES Buffer

1 l	(4.8 g)
5 l	(24.0 g)
10 l	(48.0 g)
25 l	(120.1 g)
50 l	(240.1 g)

M70300 MURASHIGE & SKOOG MEDIUM with MES Buffer and VITAMINS

1 l	(4.9 g)
5 l	(24.5 g)
10 l	(49.1 g)
25 l	(122.6 g)
50 l	(245.3 g)