

INGREDIENTS

GAMBORG B5 MEDIUM G20100, G20200, G37010

For the growth of cell suspensions of soybean root cells in the presence of 2,4 D. Nitrate is required in a concentration of 20-30 mM. Cell growth is increased with an addition of 2 mM ammonium sulfate. Thiamine is known to be an essential nutrient for cell growth and is increased in concentration up to 10 mg/l.

Gamborg O.L., Miller R.A., Ojima K., Nutrient requirement of suspensions cultures of soybean root cells. Exp. Cell Res., 50, 151 (1968).

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	100.00 μM
H ₃ B ₃	3.0 mg/l	48.52 μM
KI	0.75 mg/l	4.52 μM
MnSO ₄ • H ₂ O	10.00 mg/l	59.16 μM
Na ₂ MoO ₄ • 2H ₂ O	0.25 mg/l	1.03 μM
ZnSO ₄ • 7H ₂ O	2.00 mg/l	6.96 μM

MACRO ELEMENTS

CaCl ₂	113.23 mg/l	1.02 mM
KNO ₃	2500.00 mg/l	24.73 mM
MgSO ₄	121.56 mg/l	1.01 mM
NaH ₂ PO ₄	130.44 mg/l	1.09 mM
(NH ₄) ₂ SO ₄	134.00 mg/l	1.01 mM

Total concentration Micro and Macro elements: 3051.98 mg/l.

VITAMINS

myo-Inositol	100.00 mg/l	554.94 μM
Nicotinic acid	1.00 mg/l	8.12 μM
Pyridoxine HCl	1.00 mg/l	4.86 μM
Thiamine HCl	10.00 mg/l	29.65 μM

Total concentration Micro and Macro elements including vitamins: 3163.98 mg/l.

G20100 GAMBORG B5 MEDIUM Micro & Macro Elements

1 L	3.05 g
5 L	15.25 g
10 L	30.5 g
25 L	76.25 g
50 L	152.50 g

G20200 GAMBORG B5 MEDIUM Micro & Macro Elements & Vit.

1 L	3.05 g
5 L	15.25 g
10 L	30.5 g
25 L	76.25 g
50 L	152.50 g

G37010 GAMBORG B5 Vitamin Mixture

1 L	3.05 g
5 L	15.25 g
10 L	30.5 g
25 L	76.25 g
50 L	152.50 g