

ATCC medium: 1597 *Ustilago* complete medium II

Glucose.....10.0 g
Hydrolyzed casein.....2.5 g
Hydrolyzed Nucleic Acids (see below).....5.0 ml
Vitamin Solution (see below).....10.0 ml
Yeast extract.....1.0 g
NH₄NO₃1.5 g
Salt Solution (see below).....62.5 ml
Distilled water.....1.0 L

Adjust the pH to 7.0 before autoclaving. For solid medium, add 2% agar.
Autoclave at 121C for 15 minutes.

Hydrolyzed Nucleic Acids:

DNA (calf thymus or similar).....2.0 g
NaOH (1 M).....30.0 ml
RNA.....2.0 g
HCl (1 M).....30.0 ml

Dissolve DNA in NaOH and RNA in HCl. Autoclave at 15 psi for 10 minutes.
Mix solutions, adjust pH to 6.0, centrifuge, filter supernatant, and
increase volume to 80.0 ml with distilled water.
Store at -20C.

Vitamin Solution:

Thiamine.....100.0 mg
Riboflavin.....50.0 mg
Pyridoxin.....50.0 mg
Calcium pantothenate.....200.0 mg
p-Aminobenzoic acid.....50.0 mg
Nicotinic acid.....200.0 mg
Choline chloride.....200.0 mg
Inositol.....1.0 g
Distilled water.....1.0 L

Salt Solution:

KH₂PO₄16.0 g
Na₂SO₄4.0 g
KCl.....8.0 g
MgSO₄2.0 g
CaCl₂1.0 g
Trace Elements (see below)...8.0 ml
Distilled water.....1.0 L

Trace Elements:

H ₃ BO ₃	60.0 mg
MnCl ₂ . 4H ₂ O	140.0 mg
ZnCl ₂	400.0 mg
Na ₂ MoO ₄ . 2H ₂ O.....	40.0 mg
FeCl ₃ . 6H ₂ O	100.0 mg
CuSO ₄ . 5H ₂ O	400.0 mg
Distilled water.....	1.0 L