

ATCC Medium 461: Castenholz TYE Medium

Complete Medium

Castenholz Salts, 2x (see below)	500.0 mL
1% TYE Solution (see below)	100.0 mL
DI Water	400.0 mL
Agar (if required, 1.5%)	15.0 g
Agar (alternative)	30.0 g

Heat and mix TYE solution, DI water and agar (if required). Autoclave at 121° C.

Aseptically add salt solution.

Adjust for final pH 7.6

Dispense as required.

Castenholz Salts, 2x

Nitrilotriacetic acid	0.2 g
Nitsch's trace elements (see below)	2.0 mL
FeCl ₃ solution (0.03%, see below)	2.0 mL
CaSO ₄ x 2H ₂ O	0.12 g
MgSO ₄ x 7H ₂ O	0.2 g
NaCl	0.016 g
KNO ₃	0.21 g
NaNO ₃	1.4 g
Na ₂ HPO ₄	0.22 g
DI Water	1000.0 mL

Adjust pH to 8.2.

Filter sterilize portion prior to use.

May be stored at 2-5° C for one year.

Nitsch's Trace Elements

H ₂ SO ₄	0.5 g
MnSO ₄	2.2 g
ZnSO ₄	0.5 g
H ₃ BO ₄	0.5 g
CUSO ₄	0.016 g
Na ₂ MoO ₄	0.025 g
CoCl ₂ x 6H ₂ O	0.046 g
DI Water	1000.0 mL

Mix and add to salt solution

FeCl₃ Solution (0.03%)

FeCl ₃	0.03 g
DI Water.....	100 mL

Mix and add to salt solution.

1% TYE Solution

Tryptone	10.0 g
Yeast Extract	10.0 g
DI Water	1000.0 mL

Autoclave at 121° C for 15 minutes.