



## 1002: YTPS MEDIUM

Yeast extract (BD-Difco)	5.00	g
Tryptone (BD-Difco)	5.00	g
Sodium pyruvate	3.00	g
NaCl	19.00	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	9.00	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	0.15	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.30	g
KCl	0.50	g
KH <sub>2</sub> PO <sub>4</sub>	0.42	g
(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	0.10	g
NaBr	0.05	g
SrCl <sub>2</sub> x 6 H <sub>2</sub> O	0.02	g
Na <sub>2</sub> SeO <sub>4</sub>	0.02	g
<b>Wolfe's modified mineral elixir</b>	5.00	ml
<b>Vitamin solution</b>	0.50	ml
PIPES	6.05	g
L-Cysteine HCl x H <sub>2</sub> O	0.50	g
Resazurin	1.00	mg
Distilled water	1000.00	ml

1. Adjust pH to 7.3.
2. Mix ingredients, except L-cysteine x HCl x H<sub>2</sub>O, and bring to the boil while gassing with N<sub>2</sub>-H<sub>2</sub> (95:5) gas mixture. When the color turns from blue to reddish pink, add L-cysteine x HCl x H<sub>2</sub>O during continuous gassing and boiling. Anaerobically dispense the medium in tubes under a N<sub>2</sub>-H<sub>2</sub> (95:5) atmosphere. Stopper the tubes and autoclave.

### Wolfe's modified mineral elixir

Nitrilotriacetic acid	1.50	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	3.00	g
MnSO <sub>4</sub> x n H <sub>2</sub> O	0.50	g
NaCl	1.00	g
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	0.10	g
Co(NO <sub>3</sub> ) <sub>2</sub> x 6 H <sub>2</sub> O	0.10	g
CaCl <sub>2</sub>	0.10	g
ZnSO <sub>4</sub> x 7 H <sub>2</sub> O	0.10	g
CuSO <sub>4</sub> x 5 H <sub>2</sub> O	0.01	g
AlK(SO <sub>4</sub> ) <sub>2</sub>	0.01	g
H <sub>3</sub> BO <sub>3</sub>	0.01	g
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	0.01	g
Na <sub>2</sub> SeO <sub>3</sub>	1.00	mg



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Distilled water 1000.00 ml

Dissolve nitrilotriacetic acid and adjust pH to 6.5 with KOH. Then proceed to add minerals in the order listed.

### **Vitamin solution**

Biotin	20.00	mg
p-Aminobenzoic acid	50.00	mg
Folic acid	20.00	mg
Calcium pantothenate	50.00	mg
Nicotinic acid	50.00	mg
Vitamin B <sub>12</sub>	1.00	mg
Thiamine HCl	5.00	mg
Pyridoxine hydrochloride	100.00	mg
Thioctic acid	50.00	mg
Riboflavin	5.00	mg
Distilled water	500.00	ml

Store at -20C or 4C in the absence of light.