

# Lima bean media

Adapted by H. Judelson from Bruck et al, Phytopathology 70:597-601, 1980

## Per liter, add:

Sorbitol	5 g
Mannitol	5
Dextrose	5
KNO <sub>3</sub>	3
K <sub>2</sub> HPO <sub>4</sub>	1
KH <sub>2</sub> PO <sub>4</sub>	1
MgSO <sub>4</sub>	0.5
CaCl <sub>2</sub>	0.1
Vitamin stock	2 ml
Trace elements	2 ml
Yeast extract	2 g
*Lima bean extract	250 ml
Water to 1 liter final	

Autoclave

Store at 4C, DARK (to avoid vitamin breakdown)

\*generally clarified (see below); even using "clarified" extract, there is often a slight precipitate after autoclaving. For nicely clarified media, let the media sit 1-3 days and then decant the supernatant.

## Stocks for the above recipe

### Vitamin stock

Biotin	0.2 mg
Folic Acid	0.2 mg
I-inositol	12 mg
Nicotinic acid	60 mg
Pyridoxine-HCl	18 mg
Riboflavin	15 mg
Thiamine-HCl	38 mg
Coconut milk	50 ml

Water to 300 ml final

Store in aliquots in the dark at -20C

### Trace element stock

FeC <sub>6</sub> H <sub>5</sub> O <sub>7</sub> -3H <sub>2</sub> O	215 mg
ZnSO <sub>4</sub> -7H <sub>2</sub> O	150 mg
CuSO <sub>4</sub> -5H <sub>2</sub> O	30 mg
MnSO <sub>4</sub> -H <sub>2</sub> O	10 mg
H <sub>3</sub> BO <sub>3</sub>	10 mg
MoO <sub>3</sub>	7 mg

Water to 400 ml final

Store at room temperature

### Lima bean extract (clarified)

Add 10 oz of frozen baby lima beans (still frozen) to 1 liter water

Blend 30 seconds

Autoclave 30 min (to cook, not to sterilize).

Clarify (if desired) as follows:

Spin 7.5 x kg, 5 min-10 min. Save the supernatant.

Aliquot and store at -20C.