

# MBBM Stock Solutions

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## Abstract

Van Etten, J. (n.d.). Formulation of Modified Bold's Basal Medium (MBBM). Retrieved from <http://ncv.unl.edu/vanettenlab/>

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[dx.doi.org/10.17504/protocols.io.geqbtwdw](https://doi.org/10.17504/protocols.io.geqbtwdw)

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## Protocol

### Stock Solution #1

#### Step 1.

Add 25.0 g  $\text{NaNO}_3$  per liter d- $\text{H}_2\text{O}$

### Stock Solution #2

#### Step 2.

Add 2.5 g  $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$  per liter d- $\text{H}_2\text{O}$

### Stock Solution #3

#### Step 3.

Add 7.5 g  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$  per liter d- $\text{H}_2\text{O}$

### Stock Solution #4

#### Step 4.

Add 7.5 g  $\text{K}_2\text{HPO}_4$  per liter d- $\text{H}_2\text{O}$

### Stock Solution #5

#### Step 5.

Add 17.5 g  $\text{KH}_2\text{PO}_4$  per liter d- $\text{H}_2\text{O}$

### Stock Solution #6

#### Step 6.

Add 2.5 g  $\text{NaCl}$  per liter d- $\text{H}_2\text{O}$

### Stock Solution #7

### Step 7.

Add 50.0 g disodium EDTA and 31.0 g KOH per liter d-H<sub>2</sub>O

### Stock Solution #8

#### Step 8.

Add 4.98 g FeSO<sub>4</sub>\*7H<sub>2</sub>O per liter acidified H<sub>2</sub>O

(Acidified H<sub>2</sub>O is 999.0 mL d-H<sub>2</sub>O + 1.0 mL concentrated H<sub>2</sub>SO<sub>4</sub>)

### Stock Solution #9

#### Step 9.

Add 11.42 g H<sub>3</sub>BO<sub>3</sub> per liter d-H<sub>2</sub>O

### Stock Solution #10

#### Step 10.

Add per liter d-H<sub>2</sub>O

- 8.82 g ZnSO<sub>4</sub>\*7H<sub>2</sub>O
- 1.44 g MnCl<sub>2</sub>\*4H<sub>2</sub>O, 0.71 g MoO<sub>3</sub>
- 1.57 g CuSO<sub>4</sub>\*5H<sub>2</sub>O
- 0.49 g CoNO<sub>3</sub>\*6H<sub>2</sub>O

### Autoclave

#### Step 11.

Autoclave all stock solutions at 121°C for 20 min except solution #8 and #10 (stir to dissolve)