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### Pythium Zoospore Production Soaking Solution

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### **ABSTRACT**

Creation of soaking solutions for Pythium myriotylum to be used for large-scale zoospore production.

#### **MATERIALS**

Soaking solutions:

- -1 L beaker
- -1 g CaCO3
- -Whatman #1 filter
- -1 N KOH pH adjustment
- -1 N HCl pH adjustment
- -Sucrose

**Testing Zoospore Culture:** 

- -Haemocytometer
- -Microscope and slides
- -Counter
- -0.08% Methylene blue

### **Preparation**

1 Have mature colonies of verified Pythium myriotylum growing on CMA or 1.5-2% WA. Colony maturity ~7 days, with visible oospores.

#### **CITATION**

Jones, B. L., & Woodard, K. E (1986). A Technique for Evaluating Peanut Germ Plasm for Resistance to Pythium myriotylum. Plant Disease, 70(11), 1038–1043.

LINK

https://doi.org/10.1094/PD-70-1038

# **Soaking Solutions**

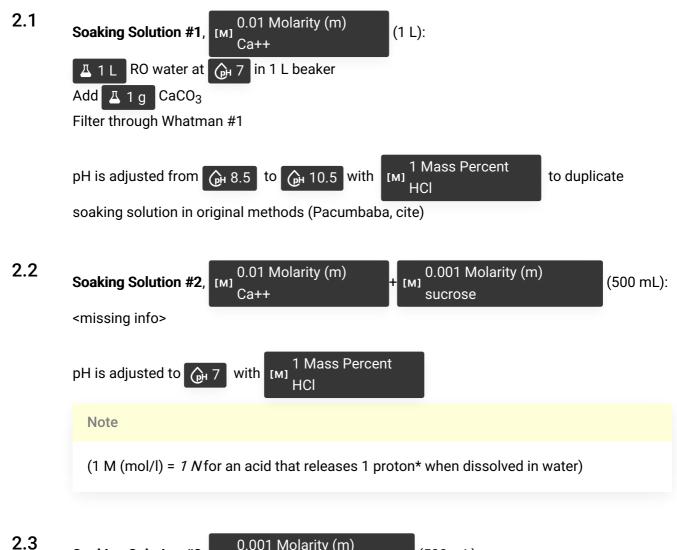
2 Make soaking solutions 1, 2 and 3:

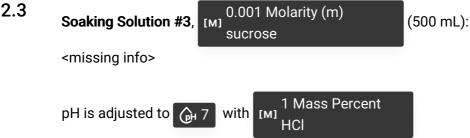
#### **CITATION**

Nyochembeng, L. M., Pacumbaba, R. P., & Beyl, C. A (2002). Calcium Enhanced Zoospore Production of Pythium myriotylum in vitro. Journal of Phytopathology, 150(7), 396–398.

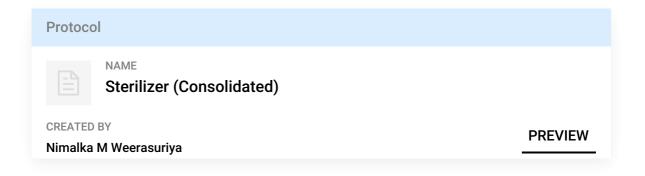
LINK

https://doi.org/10.1046/J.1439-0434.2002.00759.X





3 Autoclave for 20 minutes liquid cycle



# **Testing Zoospore Production**



- Incubate under light at Room temperature for 24:00:00.

  Check for abundant sporangia that will appear after immersion.
  - 00 . on.

6 At 1.5 up to 4 h every 30 minutes:

