

Chinese Synthetic media

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Originally from: Xu et al 1982, Acta Mycol Sinica 1:40-47

Interpreted by: Beyer et al. 2002, Molecular Plant Pathology, 3:473-485.

FOR ONE LITER

Mix together solution #1 (500 ml) and #2 (300 ml), bring volume to 1 liter with water, add agar if needed, autoclave, and then add 1 ml of filter-sterilized solution #3.

Solution #1

| | |
|---|--------|
| Glucose | 20 g |
| (NH ₄) ₂ SO ₄ | 1.32 g |
| CaCl ₂ -H ₂ O | 1.32 g |
| MgSO ₄ -7H ₂ O | 0.5 g |
| KH ₂ PO ₄ | 0.7 g |
| K ₂ HPO ₄ | 0.3 g |
| Fe ₂ (SO ₄) ₃ | 0.01 g |

Bring up to 500 mls with water, and pH to 4.6 with HCl.

Solution #2

| | |
|--------------|--------|
| Fumaric acid | 2.32 g |
|--------------|--------|

Mix with 300 ml water, and pH to 4.6 with 10N NaOH (it will not go into solution until the pH is adjusted).

Solution #3

| | |
|-------------------------------------|-------|
| MnSO ₄ -H ₂ O | 50 mg |
| ZnSO ₄ | 50 mg |
| Thiamine | 50 mg |

Bring up to 100 ml, and filter sterilize. Store in freezer in 1 ml aliquots.