Appendix 1

Media and Solutions

A1.1. P_5ARP and P_5ARP+H

Mix in a 2 liter flask: 900 ml dH_2O and 17 gm cornmeal agar. Autoclave; cool to 50°C. Add 100 ml of the following stock solution: To 500 ml sterile dH_2O add: 25 mg pimaricin, 1.25 g ampicillin, 50 mg rifampicin, 500 mg pentachloronitrobenzene (Store stock solution at 4°C.). For P_5ARP+H add 50 mg hymexazol (Tachigaren™, 70% a. i.). For P_5ARP+B and P_5ARP+B+H the basic recipe was amended with 10 ppm benomyl[1] (E. I. DuPont DeNemours and Co.; Wilmington, DE). For P_{10}ARP+B and P_{10}ARP+B+H the basic recipe was adjusted to 50 mg pimaricin/liter.

A1.2. P_5ARP-V8

Mix in a 2 liter flask: 850 ml dH_2O, 50 ml clarified V8 juice[2], 15 g Difco Bacto™ agar (Becton Dickinson; Sparks, MD). Autoclave; cool to 50°C. Add 100 ml of the following stock solution: To 500 ml sterile dH_2O add: 25 mg pimaricin (2.5% aqueous; Sigma Chemical Co.; St. Louis, MO), 1.25 g ampicillin sodium salt (Fisher Scientific; Fairlawn, N. J.), 50 mg rifampicin (ICN Biomedicals, Inc.; Aurora, OH), 500 mg pentachloronitrobenzene (Terrachlor™, 75% a. i.). Store stock solution at 4°C. For P_5ARP+H-V8 add 50 mg hymexazol (Tachigaren™, 70% a. i.).

[1] Benomyl was used to reduce growth of contaminants, such as *Mortierella* spp. (P. V. Oudemans. 1999. *Phytophthora* species associated with cranberry root rot and surface irrigation water in New Jersey. Plant Dis. 83: 251-258.)

[2] To prepare clarified V8: Add 1 gm $CaCO_3$/100 ml V8 juice. Stir for at least 20 min. Centrifuge 10,000 rpm for 10 min. Transfer supernatant.

A1.3. V8 Broth

Clarify V8 as described for P_5ARP-V8. Adjust to desired percent solution with dH_2O. Autoclave. For V8 agar add 15 g Difco Bacto™ agar (Becton Dickinson; Sparks, MD) before autoclaving.

A1.4. Soil Extract

Add 15 g of sandy loam soil to 1 liter ddH_2O. Stir overnight. Allow soil particles to settle for several days before transfer of aqueous portion to sterile container. Store at 4°C.

A1.5. Mineral Salt Solution

Dissolve the following in 50 ml ddH_2O: 4.0 g $Ca(NO_3)*4H_2O$, 2.7 g $MgSO_4*7H_2O$, 0.51 g KNO_3. Bring to 1 liter volume with ddH_2O and autoclave for 20 min. Add 1 ml sterile of the following chelated iron solution when cool. To make chelated iron solution: Add 0.652 g EDTA and 1.245 g $FeSO_4*7H_2O$ to 50 ml ddH_2O. Stir and heat gently until dissolved. Add 0.375 g KOH. Filter through 0.22 μm filter to sterilize. Store chelated iron solution at 4°C.

A1.6. Acidified Potato Dextrose Agar

Add 39 g potato dextrose agar to 1 liter dH_2O. Autoclave and cool to 50°C. Add 1 ml concentrated lactic acid while stirring.