

Appendix A. Pesticides used at the Royal Pang Da Agricultural Station.

Common Name	Trade Mark	Chemical Name
Fungicide		
Benomyl	Benlate	methyl [1-(butylamino)carbonyl]-1 <i>H</i> -benzimidazol-2-yl]carbamate
Captan	Captan	3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1 <i>H</i> -isoindole-1,3(2 <i>H</i>)-dione
Carbendazim	Derosal, Bavistin	methyl 1 <i>H</i> -benzimidazol-2-ylcarbamate
Copper oxychloride	Curpravit	copper(II) chloride oxide hydrate
Cufranab	Comac	cufranab
Dicloran	Botran	2,6-dichloro-4-nitrobenzenamine
Fosetyl	Alitte	ethyl hydrogen phosphonate
Iprodione	Rovral	3-(3,5-dichlorophenyl)- <i>N</i> -(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide
Mancozeb	Dithane M-45	[[1,2-ethanediy]bis[carbamoithioato]](2-)[manganese mixture with [[1,2-ethanediy]bis[carbamoithioato]]=(2-)]ainc
Metalaxyl	Ridomil, Apron	methyl <i>N</i> -(2,6-dimethylphenyl)- <i>N</i> -(methoxyacetyl)-DL-alaninate
Oxycarboxin	Plantvax	5,6-dihydro-2-methyl- <i>N</i> -phenyl-1,4-oxathiin-3-carboxamide 4,4-dioxide
Procymidone	Similex	3-(3,5-dichlorophenyl)-1,5-dimethyl-3-azabicyclo[3.1.0]hexane-2,4-dione
Quintozene	Terraclor	pentachloronitrobenzene
Sulfur	Kumulus-s	sulfur
Triadinefon	Bayleton	1-(4-chlorophenoxy)-3,3-dimethyl-1-(1 <i>H</i> -1,2,4-triazol-1-yl)-2-butanone
Triforine	Saprol	<i>N,N'</i> -[1,4-piperazinediy]bis(2,2,2-trichloroethylidene)]bis[formamide]

Appendix A. continued

Common Name	Trade Mark	Chemical Name
Insecticide		
Acephate	Orthene	<i>O,S</i> -dimethyl acetylphosphoramidothioate
<i>Bacillus Thuringiensis</i>	Thuricide	<i>Bacillus thuringiensis</i>
Calcium polysulfide	Lime	calcium polysulfide
Carbaryl	Sevin	1-naphthalenyl methylcarbamate
Carbofuran	Furadan	2,3-dihydro-2,2-dimethyl-7-benzofuran-1-yl methylcarbamate
Chlorpyrifos	Lorsban	<i>O,O</i> -diethyl <i>O</i> -(3,5,6-trichloro-2-pyridinyl) phosphorothioate
Endosulfan	Thiodan	(1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenebismethylene
Lambda-cyhalothrin	Karate	[1 α (<i>S</i> *),3 α (<i>Z</i>)]-(+)-cyano(3-phenoxyphenyl)-methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate
Methamidophos	Tamaron	<i>O,S</i> -dimethyl phosphoramidothioate
Methomyl	Lannate	methyl <i>N</i> -[[[(methylamino)=carbonyl]oxy]ethanimidothioate
Monocrotophos	Azodrin	(<i>E</i>)-dimethyl 1-methyl-3-(methylamino)-3-oxo-1-propenyl phosphate
Oxamyl	Vydate-L	methyl 2-(dimethylamino)- <i>N</i> -[[methylamino]carbonyl]oxy]-2-oxoethanimidothioate
Permethrin	Ambush	(3-phenoxyphenyl)methyl 3-(2,2-dichloroethyl)-2,2-dimethylcyclopropanecarboxylate
Pyrimiphos-methyl	Actellie	<i>O</i> -[2-(diethylamino)-6-methyl-4-pyrimidinyl] <i>O,O</i> -dimethyl phosphorothioate
Herbicide		
Alachlor	Lasso	2-chloro- <i>N</i> -(2',6'-diethyl)- <i>N</i> -(methoxymethyl)acetamide
Butachlor	Machete	<i>N</i> -(butoxymethyl)-2-chloro- <i>N</i> -(2,6-diethylphenyl)=acetamide
Glyphosate	Roundup	<i>N</i> -(phosphonomethyl)glycine
Haloxypop	Gallant	(+)-2-[4-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propanoic acid
Praquat	Grammoxone	1,1'-dimethyl-4,4'-bipyridinium

Appendix B. Medium and Reagents

1. Soil extract agar.

Add 1.0 g glucose, 0.5 g K_2HPO_4 , 0.1 g KNO_3 , 100 ml soil extract; and 15 g agar in 900 ml water. Adjust to pH 6.5-7.0. Autoclave at 15 lbs/in² 121 °C for 15 minutes.

Soil extract is prepared by adding 1,000 g of fertile soil in 1,000 ml tap water and autoclave for 20 minutes. Add approximately 0.5 g $CaCO_3$ to flocculate colloidal material and filter to clarify.

2. Minimum mineral medium.

Add 2.27g KH_2PO_4 , 2.31 g Na_2HPO_4 , 1.0g $NaCl$, 0.5 g $MgCl_2$, 0.034 g $CaCl_2$, 0.02 g $MnSO_4 \cdot H_2O$, and $FeSO_4 \cdot H_2O$ in 1,000 ml water. Adjust to pH 6.8. Autoclave at 15 lbs/in², 121°C for 15 minutes.

3. Nutrient agar

Add 3 g beef or yeast extract, 5 g peptone, and 15 g agar in 1,000 ml water. Adjust to pH7. Autoclave at 15 lbs/in², 121 °C for 15 minutes.

4. Mobile phase

Weigh 0.0795 g 97% $\text{CH}_3\text{COONH}_4$ and dissolved in deionized water. The volume is made up to 1,000 ml in volumetric flask. Mix 500 ml of this solution with 500 ml acetonitrile. The solvent is then passed through 0.45 μm filter, and degas with ultrasonic bath and vacuum pump for 30 minutes. Store at 4°C in the refrigerator when is not used.

Curriculum Vitae

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