



APPENDIX

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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APPENDIX

1. Chemical test reagents

1.1. Mayer's reagent

Dissolve mercuric chloride (2.72 g) in distilled water (120 ml). Separately dissolve potassium iodide (10 g) in distilled water (40 ml). Mix the two solution and make up to volume (200 ml) with distilled water. (Peter J. Houghton, 1998)

1.2. Marme's reagent

Dissolve potassium iodide (10 g) in distilled water (20 ml). Separately dissolve cadmium iodide (10 g) in distilled water (50 ml). Mix the two solution and make up to volume (100 ml) with distilled water.

1.3. Wagner's reagent

Dissolve iodine (1.27 g) and potassium iodide (2 g) in distilled water
(100 ml)

1.4. Valser's reagent

Dissolve red mercuric iodine (14 g) and potassium iodide (10 g) in distilled water (100 ml).

1.5. Dragendorff's reagent

Dissolve bismuth nitrate (8 g) with nitric acid (20ml). Add potassium iodide (27.2 g) in distilled water (50 ml). Mix the stock solution and make up to volume (100 ml) with distilled water.

2. GT-Pesticide Residual test kit

Procedure of adding reagents

1. Add 0.5 mL of GT-1 solution to 0.25 mL of methanolic sample solution in the test tube and stand for 5-10 minutes.
2. Add 0.25 mL GT-2 solution and stand for 30 minutes.
3. Add 1.0 mL GT-3 solution followed by 0.5 mL GT-4 solution and shake well, then add 0.5 mL GT-5 solution and observe the color of sample solution compare with blank (methanol).

Positive test: appear purple color in the solution.

CURRICULUM VITAE

NAME Miss Pataraporn Ponchana

DATA OF BRITH February 26, 1981

PLACE OF BIRTH Mae Hong Son, Thailand

INSTITUTION ATTENDED Princes of Songkla University, Songkla.
2000-2003. Bachelor of Science in General
science

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