

Thesis Title            Pharmaceutical Applications of Amorphophyllus  
oncophyllus Flour and/or Starch in Tablet  
Formulation.

Name                    Surachai Palanuphap.

Degree                 Master of Science (Pharmacy).

Thesis Supervisory Committee

                          Ampol Mitrevej, PhD.

                          Saiyavit Varavinit, Dr.Ing.

                          Hansa Chakrabandu, M.S.

Date of Graduation 28 November B.E.2531 (1988).

#### ABSTRACT

Kabuk flour is extracted from the tubers of Amorphophallus oncophyllus by means of hydroalcoholic extraction, drying and grinding. Because of its swelling property and viscosity; it was evaluated as binder and disintegrant in the tablet formulation. As a binder, it was found that it could be used in the dry incorporation method in the concentrations of 0.25-3.0% dry basis but it produced the tablets with low hardness, high friability, slow disintegration time and dissolution rate in comparison with some commonly used binders except tapioca starch. As a disintegrant, it was more effective when it was used as the extra granular disintegrant in the

concentrations of 1.0-3.0% dry basis. In comparison with the other disintegrants, kabuk flour exhibited the tablets with the moderate characteristics.