

MUKDAVAN SAISUK : PREPARATION OF STABILIZED Aloe vera Linn. GEL IN DRIED FORM. THESIS ADVISOR : ASSO. PROF. PRANOM PHOTIYANONT, THESIS CO-ADVISOR : ASSO. PROF. SAREE VIRUNHAPHOL, 136 pp.
ISBN 974-579-633-6

To increase stability of Aloe vera gel by making it dry with spray dried and freeze dried method, it was found that the gel in the dried form, prepared by the Aloe vera gel mixed with acacia 1.5% w/v, have nearly the same viscosity and solubility with the dried gel, sale in the maket. When it was checked by the thin layer chromatography and infrared spectrophotometry, the spray dried and freeze dried method prepared gel still have the same characteristic properties of the Aloe vera gel. More over, the dried gel kept in the refrigerator still maintain the dried gel quality, longer than the dried gel kept at room temperatures during 60 days.

Also the dried gel dissolved in water containing methyl paraben 0.2% w/v, propyl paraben 0.02% w/v, EDTA 0.05% w/v and sodium metabisulfite 0.1% w/v, can be kept longer than 210 days with standard microbial allowance of industrial ministry. The Aloe vera gel containing creams exhibited same quality as the premixed creams except their viscosity were increased.