

## Peningkatan kelarutan ibuprofen dengan metode dispersi padat menggunakan polietilen glikol 6000

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=126131&lokasi=lokal>

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### Abstrak

Akar kucing (*Acalypha indica* Linn.) has been known and believed to be able to decrease blood uric acid level. In order to improve people acceptance using herbal medicine, it is necessary to develop traditional drug to become fitofarmaka. Dry suspension is a form which is reconstituted with certain quantity of water or other relevant solvent before use. This research is meant to arrange dry suspension formula containing akar kucing extract which is physically stable, and to choose the best formula for dry suspension containing akar kucing extract. It was made in this research, four dry suspension formula with different composition of suspending agent, suspending agent used in this research is HPMC 50 cPs. The making of basic granular of dry suspension is conducted by using dry granulation method to avoid water existence. Evaluation was made to include odor, taste and color test, water content, flow rate, pH, reconstitution time, repose angle, particle size distribution, viscosity, and higroskopisity test. The evaluation showed that lower HPMC content, will result in a better evaluation for water content, viscosity, reconstitution time and higroskopisity, and the higher HPMC content will result in a better evaluation for flow rate, repose angle and particle size distribution. The evaluation result showed that dry suspension formula contain akar kucing extract have a good physical stability and dry suspension containing akar kucing extract on formula A is the best formula from the four performed formula.