

## INTISARI

**WULANDARI, AR. 2016. FORMULASI DAN UJI MUTU FISIK SUSPENSI KLORAMFENIKOL DENGAN VARIASI *SUSPENDING AGENT PULVIS GUMMI ARABICI* (PGA) DAN CARBOPOL P 934, KARYA TULIS ILMIAH, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.**

Kloramfenikol adalah antibiotik dengan spektrum luas, namun bersifat toksik. Kloramfenikol merupakan salah satu antibiotik yang tidak larut dalam air, karena itu sediaannya dibuat dalam bentuk suspensi. Pulvis Gummi Arabici dan Carbopol merupakan *suspending agent* yang mudah larut dalam air. Penelitian ini bertujuan untuk mengetahui pengaruh variasi *suspending agent* PGA dan carbopol P 934 dalam pembuatan suspensi kloramfenikol dan mengetahui konsentrasi PGA dan carbopol P 934 yang dapat memberikan mutu fisik suspensi kloramfenikol yang baik.

Suspensi kloramfenikol dibuat dengan empat formulasi, formula I PGA 5% dan carbopol P 934 1,5%, formula II PGA 10% dan carbopol P 934 1,5, formula III PGA 5% dan carbopol P 934 3% dan formula IV PGA 10% dan carbopol P 934 3%. Uji meliputi uji mutu fisik ( pengukuran volume sedimentasi, viskositas, mudah tidaknya dituang, redispersibilitas, pH). Pengamatan uji mutu fisik dilakukan setiap satu minggu sekali. Data dianalisis secara statistik anova satu arah dengan taraf kepercayaan 95%.

Hasil penelitian, kloramfenikol dapat dibuat menjadi suspensi. Sediaan suspensi kloramfenikol dengan konsentrasi PGA 5% dan carbopol P 934 1,5%, PGA 10% dan carbopol P 934 1,5, PGA 5% dan carbopol P 934 3% serta PGA 10% dan carbopol P 934 3% memenuhi syarat uji mutu fisik suspensi. Sediaan suspensi dengan konsentrasi PGA 5 % dan carbopol P 934 3 % adalah formula yang paling baik.

---

Kata kunci: Formulasi, Kloramfenikol, *Suspending Agent*, *Pulvis Gummi Arabici*, Carbopol P 934

## ABSTRACT

**WULANDARI, AR. 2016. FORMULATION AND PHYSICAL QUALITY TEST OF SUSPENSION CHLORAMPHENICOL WITH VARIATION SUSPENDING AGENT PULVIS GUMMI ARABICI (PGA) AND CARBOPOL P 934, SCIENTIFIC PAPER. FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY. SURAKARTA.**

Chloramphenicol is a broad spectrum antibiotic, with toxic characteristics. Chloramphenicol is one of antibiotics that do not dissolve in water, so it is made in the form of suspension. Pulvis Gummi Arabici and Carbopol are suspending agents that are easily soluble in water.

This study is to determine the effect of suspending agent variation PGA and carbopol P 934 in the manufacture of chloramphenicol suspension and to know the concentration of PGA and carbopol 934 to give the best physical chloramphenicol suspension. Chloramphenicol suspension was made by four formulas, 5% I PGA and 1.5% carbopol P 934 formula, 10% II PGA and 1.5% carbopol P 934 formula, 5% PGA and 3% carbopol P 934 formula, and 10% IV PGA and 3% carbopol P 934. The test includes physical quality (sedimentation volume measurement, viscosity, easy or not to cast, redispersibility, pH). Physical quality test observation is done once a week. Data were analyzed statistically using one-way ANOVA with 95% confidence level.

The result shows that chloramphenicol can be made into suspension. Availability of chloramphenicol suspension with concentration 5% PGA and 1.5% carbopol P 934, 10% PGA and 1.5% carbopol P 934, 5% PGA and 3% carbopol P 934, and 10% PGA and 3% carbopol is qualified physical quality test suspension. Availability of suspension with concentration PGA 5% and carbopol P 934 3% is a perfect formula.

---

Keywords: Formulation, chloramphenicol, *Suspending Agent Pulvis Gummi Arabici*, Carbopol P 934