

## INTISARI

FEBRIANA, L., 2016, PENGARUH PEMBERIAN KOMBINASI EKSTRAK DAUN SIDAGURI (*Sida rhombifolia* L.) DENGAN DAUN KUMIS KUCING (*Orthosiphon aristatus* (Bl) Miq.) TERHADAP PENURUNAN KADAR ASAM URAT PADA AYAM LEGHORN, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI SURAKARTA

Daun sidaguri dan daun kumis kucing mempunyai aktivitas anti hiperurisemia. Penelitian ini bertujuan mengetahui pengaruh pemberian kombinasi ekstrak daun sidaguri (*Sida rhombifolia* L.) dengan daun kumis kucing (*Orthosiphon aristatus* (Bl) Miq.) terhadap penurunan kadar asam urat pada ayam leghorn.

Penelitian menggunakan 35 ekor ayam dibagi dalam 7 kelompok. Kelompok I : ekstrak etanolik daun sidaguri 27,8mg/1,5kg, kelompok II : ekstrak daun kumis kucing 81,18mg/1,5kg bb. Kelompok III, IV, V diberi kombinasi ekstrak etanolik daun sidaguri dan daun kumis kucing berturut-turut (75%:25% atau 20,85mg/1,5kg bb:20,295mg/1,5kg bb); (50%:50% atau 13,9mg/1,5kg bb:40,59mg/1,5kg bb); (25%:75% atau 6,95mg/1,5kg bb:60,885mg/1,5kg bb). Kelompok VI : kontrol negatif (CMC 0,5%) dan kelompok VII : kontrol positif (Allopurinol) 14mg/1,5kg bb. Perlakuan dilakukan selama 14 hari. Pengambilan darah dilakukan 3 kali (0,7, dan 14) kadar asam urat diukur dengan alat spektrofotometer.

Hasil penelitian daun sidaguri dan daun kumis kucing mempunyai kemampuan menurunkan kadar asam urat pada ayam leghorn. Data statistik menunjukkan kombinasi ekstrak etanolik 50%:50% (13,9mg/1,5kg bb:40,59mg/1,5kg bb) menurunkan kadar asam urat yang paling besar.

Kata Kunci : daun sidaguri, daun kumis kucing, hiperurisemia.

## ABSTRACT

FEBRIANA, L., 2016, THE EFFECT OF COMBINED EXTRACT SIDAGURI LEAF (*Sida rhombifolia* L.) WITH KUMIS KUCING LEAVES (*Orthosiphon aristatus* (Bl) Miq.) TO DECREASE URIC ACID CHICKEN LEGHORN , SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI SURAKARTA

Sidaguri and kumis kucing leaves have activity anti-hyperuricemia. This study aims to determine the effect of the combination extract of sidaguri leaves (*Sida rhombifolia* L.) and kumis kucing leaves (*Orthosiphon aristatus* (Bl) Miq.) to decrease uric acid levels in leghorn chickens.

The study used 35 chickens were divided into 7 groups. Group I: ethanolic extract of sidaguri leaves 27,8mg/1,5 kg, group II: the leaf extract of kumis kucing leaves 81,18mg/1,5 kg bb. Group III, IV, V given a combination of ethanolic extracts sidaguri and kumis kucing leaves in a row (75%:25% or 20,85mg /1,5 kg bb:20,295mg/1,5 kg bb); (50%:50% or 13,9mg/1,5 kg bb:40,59mg/1,5 kg bb); (25%:75% or 6,95mg/1,5 kg bb:60,885mg/1,5 kg bb). Group VI: negative control (CMC 0,5%) and Group VII: positive control (Allopurinol) 14mg/1,5 kg bb. The treatment was done for 14 days. During the 7 days all groups in order chicken liver juice induced hyperuricemia, and all groups were given the test preparation except negative control. Blood sampling performed 3 times (0<sup>th</sup>, 7<sup>th</sup> and 14<sup>th</sup>) uric acid levels were measured with a spectrophotometer. The data obtained were analyzed by One Way Anova ( $p > 0.05$ ), continued of SNK test.

The results showed that the ethanolic extract sidaguri and kumis kucing leaves have ability to lower uric acid levels and combinations of ethanolic extract 50%:50% (13,9mg/1,5 kg bb:40,59mg/1,5 kg bb) lowering uric acid levels greatest.

Keywords: ethanolic extract, sidaguri leaves, kumis kucing leaves, allopurinol, hyperuricemia.