ABSTRACT

NUR ADILLA ADHA PURBA. Effectivity of Kepel (Stelechocarpus burahol) Fructus Simplicia on Reducing Ammonia, Trimethylamine, and Phenol Content in Mice (Mus musculus) Faecal. Supervised by HERA MAHESHWARI and SITI SA’DIAH.

Kepel (Stelechocarpus burahol) was a fruit which found in Indonesia and it was believed can reduce the odor from excreta such as faeces and urine. This research was aimed to show the effect of kepel (Stelechocarpus burahol) fructus simplicia on reducing odor emitted from excreta by ammonia, trimethylamine, and fenol content in mice faecal. Total of 18 mices (Mus musculus) were used in this study. They were devided into 2 groups; negative control group and kepel fruits peel powder treated group. The dose of kepel was 2.6 mg/ gram body weight and was given orally every day for seven days. The collected faeces was analyzed for ammonia and trimethylamine content by titration method and for phenol content by using spectrophotometry method. The result showed that kepel significantly reduce ammonia content 75.5% and phenol content 42.4 % in faeces after seven days, but it has not signifficant for trimethylamine content.

Keywords: kepel fruits peel powder, ammonia, trimethylamine, phenol