

## Subchronic oral toxicity study of Vegeta in Sprague-Dawley rats

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### Abstrak

Tujuan penelitian ini adalah untuk menentukan keamanan dan efek toksik Vegeta yang diberikan secam oral selama 90 hari pada tikus. Delapan puluh tikus strain Spragite-Dawley dibagi secara acak menjadi 4 kelompok. Titip kelompok lerdiii dari 20 tikus, 10 jantan dan 10 betina. Tiap kelompok masing-masing mendapat Vegeta 0,25 g/kg BB; 0,50 g/kg BB; 1,00 g/kg BB (dilantikan daiam akuades). dan kelompok kontrol mendapat 5,00 ml/ kg BB akuades secara oral memahii xoode lambung selama 90 hari. Berat badan dan tingkah laku tikus tiap hari dievaluasi. Pada hari ke 90 hcwan coba didekapitasi, sampel da rah diambil untuk dinilai kadar hemoglobin, lekosit, SGPT, SCOT, kreatinin, dan ureitrn. Organ daiam juga diambil, dilimbang dan diperiksa secara mikroskopis. Hasil meniinjukkan bahwa Vegeta dosis 0,25 g/kg BB; 0,50 g/kg BB; dan 1,00 g/kg BB tidak inempengarulii berat badan, fungsi luiti dan fungsi ginja! dtbandingkun kelompok kontmi Dibandingkan dengan kelompok kontrol, tidak didapaikan perbedaan bennakna dalam nilai hemoglobin, tefapi hillng lekosit meningkat pada kelompok yang mendapat 1,00 g/kg BB Vegeta, yang kemungkinan disebabkan oleh infeksi. Berat ofak dan limpa tikus jantan, dan berat paru dan jantung tikus betina pada kelompok Vegeta berbeda dibandingkan kelompok kontrol. Tetapi karena perbedaan berat tidak dose related dan tidak didapatkan kelainan mikroskopis yang spexifik dibandingkan kelompok kontrol. ini meniinjukkan bukan merupakan efek toksik Vegeta. Nilai No observed effect level (NOEL) Vegeta 90 hart pemberian secant oral pada tikus jantan dan betina strain Sprague-Dawley adalah 1,00 g/kg BB. (Med J Indones 2006; 15:223-8).

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The objective of this study was to determine the safety and toxic effect of Vegeta giving orally for a period of 90 days in rats. Eighty rats ofSpragte-Dawley strain were randomly devided into 4 groups. Each group consists of 20 rats, 10 male and 10 female rats. Each group received 0.25 g/kgBW; 0.50 g /kgBW; 1.00 g /kgBW Vegeta (in ac/uades! solution) respectively, and the control group received 5 niL/kgBW aquadest , given orally by gastric tube for 90 days. The rat's body weight and behavior were daily evaluated. On the 901'1 day, the rats were decapitated and the blood samples were withdrawn for evaluation of Hemoglobin, leucocyte, SGPT, SCOT, creatinine, and ureum concentration. Visceral organs were also removed, being weighted and were examined microscopically. The results showed that Vegeta with dose of 0.25 g / kgBW; 0.50 g / kgBW, and ].00 g / kgBW did not affect body weight, liver and renal function compared to control group. There was no significant difference for hemoglobin value compared to control group, but the number of leucocyte increased in 1.00 g / kgBW Vegeta dose group, which was possibly caused by infection. In Vegeta group, there was different spleen and brain weight in male rals, and different lung and heart weight in female rats compared to the control group. However, since it was not dose-related and there was no specific abnormality in microscopic examination compared to the control group, it was not indicated as Vegeta toxic effect. The No observed effect level (NOEL) value of Vegeta for 90 day oral administration in male and female rats of Sprague-Dawley strain was 1.00 g/kgBW. (Med J Indones 2006; 15:223-8).