Pengaruh lama perendaman terhadap degradasi scaffold hidroksiapatit/alginat dan scaffold hidroksiapatit/alginat/kitosan di dalam simulated body fluid = The effect of immersion time on degradation of hydroxyapatite/alginate scaffold and hydroxyapatite/alginate/chitosan scaffold in simulated body fluid

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Abstrak

ABSTRACT
Penelitian ini bertujuan untuk mengetahui pengaruh lama perendaman terhadap degradasi scaffold HA/alginat 30/70 dan scaffold HA/alginat/kitosan 30/50/20 . Degradasi ditentukan melalui selisih berat sebelum dan setelah perendaman selama 3, 6, 9, 12, atau 24 jam. Hasil penelitian menunjukkan bahwa degradasi scaffold HA/alginat selama 3, 6, 9, 12, atau 24 jam secara berurutan 17,6 1,33; 21,3 0,66; 24,2 1,01; 26,2 1,19 atau 27,6 0,31 dan degradasi scaffold HA/alginat/kitosan dengan lama perendaman yang sama secara berurutan 30,2 0,81; 39,4 0,67; 43,7 0,66; 48,1 0,94; atau 51,5 0,39. Degradasi scaffold HA/alginat dan HA/alginat/kitosan berbeda bermakna.
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ABSTRACT
The aim of this study was to determine the effect of immersion time on degradation of HA alginate 30 70 and HA alginate chitosan 30 50 20 scaffolds. Degradation of the scaffold is determined by the difference of weight before and after immersion for 3, 6, 9, 12, or 24 hours. The result showed that degradation of HA alginate scaffold with 3, 6, 9, 12 or 24 hours of immersion time were 17,6 1,33 21,3 0,66 24,2 1,01 26,2 1,19 or 27,6 0,31 and degradation of HA alginate chitosan scaffold with the same immersion time were 30,2 0,81 39,4 0,67 43,7 0,66 48,1 0,94 or 51,5 0,39. HA alginate and HA alginate chitosan scaffolds has significantly different.