

TE 131487

#### ABSTRACT

The feasibility study of microcystin toxin from *Microcystis aeruginosa* was conducted using eggshell. Eggshell was ground into three sizes: 20-40, 40-60 and >60 meshes and then were placed as packed-bed column. The microcystin at 200 µg/L was passed through the column at 2 flow rates: 0.5 and 1.5 ml/min. The treatment was a 3x3x3 factorial in completely randomized design. The chromatogram of HPLC at 6:4 of phosphate buffer and methanol showed that the smallest size of eggshell (> 60 mesh) could reduce the microcystin at 93 percent of reduction. However, the two flow rates did not show any difference.

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