



**SYNERGISTIC EFFECT OF *Holothuria atra* (Lollyfish) and
Synapta maculata (Spotted worm) CRUDE EXTRACTS
ON THE REFLEX OF *Mus musculus* (Albino mice)**

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ABSTRACT

The study was performed to determine the synergistic effect of *Holothuria atra* (Lollyfish) and *Synapta maculata* (Spotted worm) crude extracts on the reflex of the *Mus musculus* (Albino mice). Different concentrations of extract were prepared into 25%, 50% and 75% synergistic extract. Behavioural changes were observed and measured by means of three different tests namely: Tail Pricking Test, Flipping Test and Swimming Test. In the Tail Pricking test and Swimming Test, the study shows that the different concentrations of synergistic sea cucumber extract expressed an effect on reducing the pain being felt and reducing the motor activity of the mice respectively. The number of mice that were able to respond was observed to decrease as the concentration increases. While in the Flipping Test, the results showed no significant effect on the righting reflex of the mice. The different concentrations of synergistic sea cucumber extract had no significant difference between each other. The concentration that produced the greatest depressive effect on the reflex of mice was the 75% extract.



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