**The Effect of Fish Protein Hydrolysate *Krytopterus Spp* On Body Weight, Total Protein And Albumin Level In *Rattus Novergicus* Stunting Models**

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**ABSTRACT**: Nutritional deficits, particularly in proteins, significantly contribute to stunting. Proteins are required for growth, tissue repair, and the synthesis of vital biochemical compounds. This study was to investigate the therapeutice potential of fish protein hydrolysate (FPH) derived from *Krytopterus spp*. in improving body weight, total protein, and albumin levels in a *Rattus novergicus* stunting model. A true experimental design with a post-test control-group approach was used. Thirty stunted Rattus novergicus models were developed through dietary restriction and divided into five groups: a negative control group, a stunting control group, and three stunting groups supplemented with FPH at doses 18 mg/bw (Dose 1)*,* 36 mg/bw (Dose 2)*,* and 72 mg/bw (Dose 3).

This research found that group with FPH *Krytopterus Spp* after 4 weeks of treatment animal models could restore their body weight, the best improvement was group with dose treatment of 18 mg and 72 mg. The highest albumin levels were observed significant in treatment Dose 2 with p value <0.001. The highest total protein was observed significant in treatment dose 3 with p value < 0.05. These findings indicate that supplementation with fish hydrolysate protein *Krytopterus Spp* successfully repaired the body weight, protein and albumin levels in the stunting model.

**KEYWORD:** albumin; fish protein hydrolysate; stunting theraphy; total protein; functional food

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