

Body Composition Analysis of Wild Labeo Bata in Relation to Body Size and Condition Factor from Chenab, Multan, Pakistan

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Abstract : Seventy three wild Labeo bata of different body sizes, ranging from 8.20-16.00 cm total length and 7.4-86.19 g body weight, were studied for the analysis of body composition parameters (Water content, ash content, fat content, protein content) in relation to body size and condition factor. Mean percentage is found as for water 77.71 %, ash 3.42 %, fat 2.20 % and protein content 16.65 % in whole wet body weight. Highly significant positive correlations were observed between condition factor and body weight ($r = 0.243$). Protein contents, organic content and ash (% wet body weight) increase with increasing percent water contents for Labeo bata while these constituents (% dry body weight) and fat contents (% wet and dry body weight) have no influence on percent water. It was observed that variations in the body constituents have no association to body weight or length.

Keywords : Labeo bata, body size, body composition, condition factor

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