CHEMICAL COMPOSITION OF EGG SHELL IN MONIEZIA EXPANSA

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ABSTRACT: The cestode *Moniezia expansa* possesses very small vitelline gland and therefore has very thin egg-shell. The chemical composition of the egg-shell of *M. expansa* has been investigated using histochemical techniques. There are three precursors of egg-shell viz. phenolase, phenols and Proteins. Of these precursors, only protein precursors is found to be present in *M. expansa* and phenols and phenolase are found to be absent The presence of basic protein, tyrosine, keratin, protein containing disulphide (-SS-) and (-SH-) linkages indicate the egg-shell to be of keratin-type. Arginine, elastin, and lipid were absent. Besides protein, glycogen and lipids were also present.

Key Words: Egg shell, histochemistry, keratin.