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Total Lipid Content of Ascardia Galli from its Host Gallus Domesticus

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Abstract: Lipid are important constituents for an animal body as they serve both in structural makeup and in energy yielding, but in purusites there is a good deal difference in the mode of procurement of these impartment metabolites. They may be available to them in digested or semi digested state. In helminthes the fatty acid synthesis is very limited as per the studies of Ginger and Fairbairn, 1966. In nematode most of lipids located in the hypodermis especially in the lateral cords, muscle cells, intestinal cells and ovaries. Lipid is the chief food reserve in free living nematode and plant parasitic nematodes. Keywords: Ascardia galli, Gallus domesticus, total lipid content.

INTRODUCTION

In helminth worms are the biological importance of lipids as group of certain related hydrocarbons, various attempts have been made to have a data on total lipid content of several helminth parasites. The total lipid content of Ascaris lumbricites have been worked out in fresh tissue in both male and female worms by Cavier et.al,1958. The lipid content has been worked out in dry tissue of Nippostrongylus brasiliensis by Roberts and Fairbaim, 1965. The lipid content in Ascaridia galli has been worked out in fresh tissue of male and female worms by Shorb and Shorb, 1966, hence the author in his present study made an attempt to estimate the total lipid content in male and female worms of Ascaridia galli.

MATERIAL AND METHOD

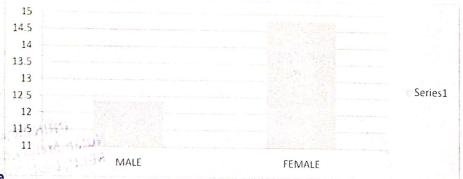
The nematodes were collected from intestine of Gallus domesticus. Required quantity of these sample dried at 48-50 c for 48 hrs separately and preserved powdered samples weighted for quantitative estimation of lipid,% between male and female by methanol, chloroform estimation method (Barner H. and Block Stok, 1973).

III. RESULTS

The results obtained on the total lipid content male and female worms is 12.35 and 14.80 respectively. The male to female ratio of hpid content is 0.83 indicating that its content is more in female by 16.55%.

TABLE:1 Total Lipid content in (mg%) in male and female worms of Ascaridia galli

SEX	CONTENT Male to female ratio		
NI/ALL	12.35	wate to female ratio	Percentage difference
FEMALE	14.80	0.834	16.55



utan Mahavidyalaya ent in (mg%) in male and female worms of Ascaridia galli ELU. Dist. Parbhani

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IV. DISSCUSSION

The result obtained on the total lipids of the Ascaridia galli has necessary prerequisites conductive to its parasites mode of life. The value of total lipid (wet.weight) are comparable in trend with that of A.lumbricodies, male1.3% and female1.6% as reported by Cavier et.al., 1958 and in dry tissue they agree in trend with those of A.lumbricoides, male6.7% and female11.9%, Roberts and Fairbairn, 1965. In Ascaridia galli and Ascaridia lumbricoides female has higher lipid content which is justifiable as per the structural needs for their large number of eggs. There is a variation in the individual valve of the parasites mentioned above which is due to species difference, different host, their metabolism and habit of the parasites. The results of the lipid contents are significantly more on female worm. The difference between the two sexes. It can be inferred that the female worms are metabolically more active.

V. ACKNOWLEDGEMENT

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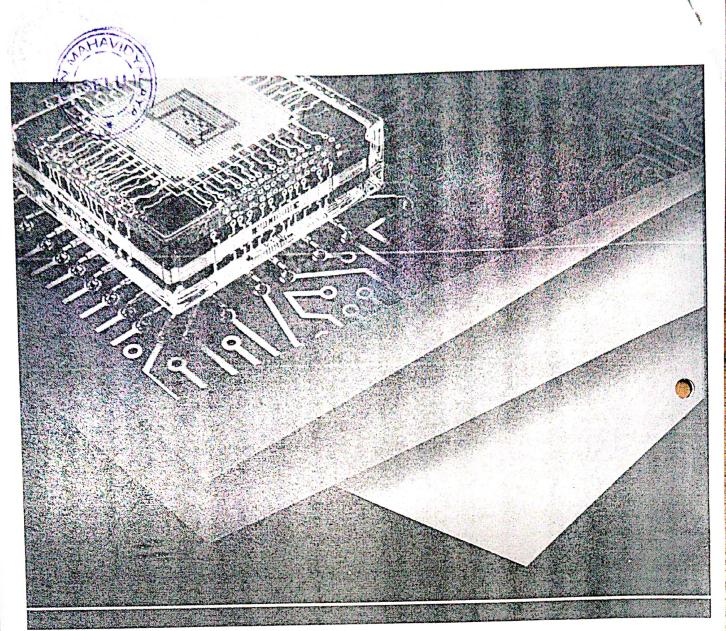
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