

**A NEW SPECIES OF THE GENUS *CYLCOSTRONGYLOS* YAMAGUTI, 1961 (NEMATODA: CYLCOSTRONGYLDAE) FROM FRESH WATER FISH *MASTACEMBELLUS ARAMATUS*.**

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**ABSTRACT**

A new species of nematode *Cylicostrongylos sailuensis.sp.* was erected from fresh water fish *Mastacembelus armatus*. We have describe this new species in the genus *Cylicostrongylos* (Yamaguti,1961) differ from other species in body measurement ,the head is somewhat bulbous,two pairs of horn like thickenings are present, mouth opening without lips.

**KEY WORDS:** *Cylicostrongylos sailuensis sp.*, *Mastacembellus aramatus*, *Nematode Parasites*.

**INTRODUCTION**

The genus *Cylicostrongylos* was erected by Yamaguti1961, with its type of species *C.ctareai*.Latter Sood added one new species *C. thapari*, 1966. The present communication deals with the *Cylicostrongylos sailuensis.sp.* from the fresh water fish *Mastacemnellus aramatus*.

**MATERIALS AND METHODS**

The male and female nematodes described in this paper collected from the intestine of freshwater fish *Mastacembelus armatus* obtained from the various dams, lakes, river streams etc. The nematode was fixed in hot 70% alcohol. The worm were later preserved in fresh 70% alcohol to which 10% glycerine was added. The specimen were cleared in Lactophenol. The worms were mounted in glycerine.All drawings were made with the aid of camera lucida and all measurements are expressed in millimeters.

**DESCRIPTION**

The body is thin and cylindrical small to medium sized. The head is slightly bulbous. The buccal capsule is thick walled and cup shaped. Two pairs of horn like thickenings are present. One pair ventro laterally and one pair are dorsally situated. A spinose median stylet. The mouth opening is oval without lips. The oesophagus is muscular and club shaped. The intestine is without diverticula. The cervical alae are absent.

**Male**

The body is 13.98 to 14.30 mm long and 0.32 to 0.42 mm wide. Buccalcapsul measure 0.15 to 0.19 mm and 0.14 to 0.16 mm wide The oesophagus is 1.18 to 1.22 mm long and 0.12 to 0.15 mm wide. The Spicules are slender, unequal broader anteriorly and narrow posteriorly left spicule is about 0.63 to 0.66mm in length. Gubernaculum is absent. The burs is well developed, somewhat circular, divided into two asymmetrical lateral lobe. All rays are elongated reaching nearly margin of bursa The Ventrolateral rays are widely separate. The prebursal papillae are absent.

**Female:**

The body is 14.35 mm long and 0.31 mm wide. The buccalcapsul measures 0.20 mm long and 0.16 mm wide. The median stylet measures 0.21 mm long. The Oesophagus 0.49mm and 0.15mm wide. The valve is preequatorial 4.92 mm from anterior end. The tail is blunt 0.28 mm long .The eggs are oval 0.05 to 0.07 \*0.02 to 0.03 mm in size.

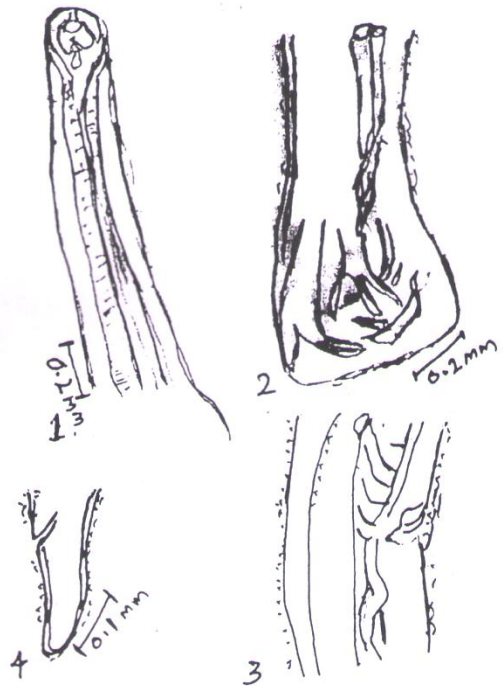
Host : *Mastacembelus armatus* (Lacep)

Habitat : Intestine

Locality : Sailu,(M.S.) India.

**DISCUSSION**

The present form is referred to the genus *Cylicostrongylos*, Yamaguti,1961 that is buccalcapsul with spinones median styletn horn like thickenings mouth opening oval and without lips and having unequal and dissimilar spicules. It is differ from *C. thapari* (Sood, 1966) which is three pair of horn like thickenings are present, spicules of male equal and similar. It is also differ from *C.ciuareai*, (Yamaguti, 1961), circular bursa in having simple dorsal ray instead of terminating. Accordingly it is regarded as new with specific name *C. sailuensis* from their locality.



Figs.1-4. *Cylicostongylus sailuensis* n.sp. Fig.1. Male anterior & Dorsal view.  
Fig-2. Bursa Dorsal view. Fig.-3 Valva Fig.-4 Female tail lateral view,

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