

Accepted Manuscript

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PII: S0304-4017(18)30054-2
DOI: <https://doi.org/10.1016/j.vetpar.2018.02.005>
Reference: VETPAR 8589

To appear in: *Veterinary Parasitology*

Received date: 12-5-2017
Revised date: 25-1-2018
Accepted date: 1-2-2018

Please cite this article as: Zhou S-Y, Liu Y-M, Zhang Q-Z, Fu Y-W, Lin D-J, Evaluation of an antiparasitic compound extracted from *Polygonum cuspidatum* against *Ichthyophthirius multifiliis* in grass carp, *Veterinary Parasitology* (2010), <https://doi.org/10.1016/j.vetpar.2018.02.005>

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Highlights

- An active compound, emodin, was isolated from *Polygonum cuspidatum* by bioassay-guided isolation.
- Emodin had significantly parasitocidal efficacy against *Ichthyophthirius multifiliis*.
- Emodin has the potential to be a new and effective drug to control *I. multifiliis* in fish farming industry.

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