Anthelmintic Activity of Liquid Self Emulsifying Drug Delivery System (SEDDS) of Praziquantel

Dr. Kiran Mahajan
Associate Professor, Pharmaceutics
Sharadchandra Pawar College of Pharmacy, Otur, Pune, Maharashtra, India
Corresponding Author: Dr. Kiran Mahajan
kirancmahajan@gmail.com

Abstract: The present study aims at developing a new adaptable method for evaluation of anthelmintic activity. Liquid self emulsifying drug delivery system was prepared by using design expert method. The anthelmintic activity of emulsion was evaluated by using Indian earthworms at doses 2.5, 5, 10, 15, 20 mg/ml. The Praziquantel was used as standard drug (10 mg/ml). The paralysis and death time of earthworms after administering doses were determined. The result of anthelmintic activity of earthworms showed that the earthworms had taken less time for paralysis and less time for death. It can be concluded that earthworms can be used successfully for the anthelmintic activity study as it is easy, prominent, an adaptable to laboratory conditions. Evaluation of anthelmintic activity of any drug when carried out in laboratory conditions by using the isolated worms from nature cannot be adaptable with artificial laboratory conditions. The present anthelmintic activity study reveals a new methodology with earthworms cultured in laboratory conditions.

We studied the anthelmintic activities of an Praziquantel drug on earthworms. This result showed that the earthworms had taken less time for paralysis and death. This novel dosage form might be a promising dosage form in the prevention of worm infections for pediatric patients.

Keywords: Anthelmintic, Self emulsifying drug delivery system (SEDDS), Praziquantel, Earthworms, Paralysis

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