

The effect of phenyl vinyl sulfone on *Gastrothylax crumenifer* *in vitro*

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Received March 11, 2014 and Accepted June 3, 2014

ABSTRACT : *Gastrothylax crumenifer* a trematode parasite of rumen in cattle causes massive damages to the host. A cystein proteases inhibitor, Phenyl vinyl sulfone (PVS) which has antihelminthic and antiprotozoal effect causes lesions, structural disruption leading to gradual loss in viability, mortality and even death on prolong exposé of the chemicals to the parasites. Microscopic studies also depict the architectural and tegumental alterations on successive higher doses. Thus PVS appears to have significant roles in the protection of assets as animals.

Key Words: *G. crumenifer*, PVS, tegument, *in vitro*.