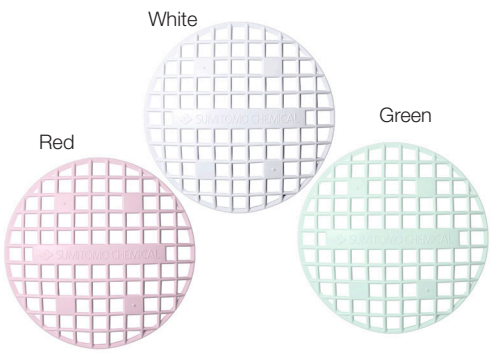
SumiLarv™ 2MR

Long lasting control of container breeding mosquitoes

Effective for up to 6 months

Product Profile

- Active ingredient: pyriproxyfen.
- Residual efficacy: up to 6 months.
- Target vectors: *Ae. aegypti, Ae. albopictus, An. stephensi* and other container breeding mosquitoes.
- Formulation type: matrix release.
- Dosage: 1 disc per 40 - 500 litres water, depending on local registration.
- Treatment method: place into water container.
- Colours: white, green, red.



Key Features

- Effective for up to 6 months - gives an operational cost saving compared to conventional larvicides.
- Easy to use - simply drop into water container.
- Discs are easy to see - helps to identify and track treatments.
- Slow release technology - ensures prolonged activity of the active ingredient.
- No odour - enhances user acceptance.
- Designed for use in clean water storage containers.

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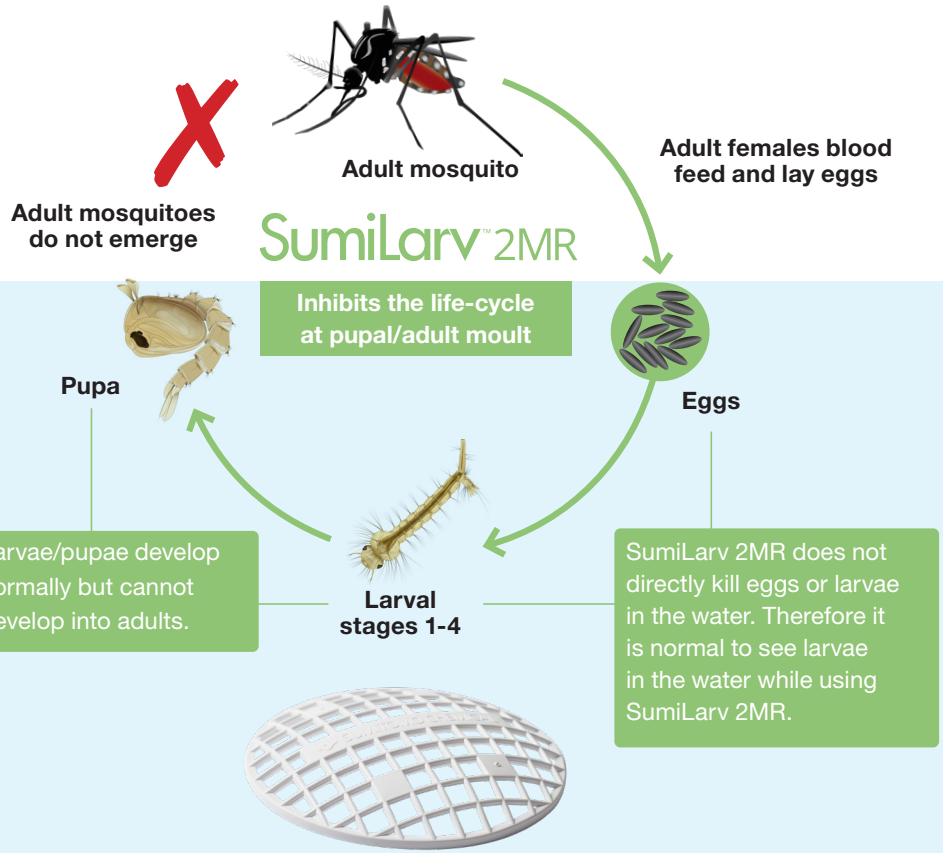
SumiLarv™ 2MR (pyriproxyfen): Mode of Action

SumiLarv 2MR is a novel mosquito larval control product based on the insect growth regulator (IGR) pyriproxyfen. Pyriproxyfen was invented and developed by Sumitomo Chemical Co., Ltd. and has a unique mode of action that is insect-specific, stage-specific, and not neurotoxic.

Mosquito Lifecycle



Thailand Field Simulation

A field evaluation of SumiLarv™ 2MR was conducted at a field research station in Nonthaburi Province, Thailand by the National Institute of Health against *Ae. aegypti* larvae in concrete and plastic containers. Multiple dosages of the formulation were used and the treated containers and controls were challenged weekly with larvae for about 6 – 12 months.

Plastic water containers (Figure 1) and concrete containers (Figure 2) were filled with 40L, 80L and 160L of tap water respectively. SumiLarv 2MR discs were placed into each container (1 disc/container). For controls, containers of 40L, 80L and 160L of tap water without SumiLarv 2MR were used. After placing the discs in the containers, each container was covered with a lid in order to minimize evaporation of water and contamination of debris from the air. The water was allowed to settle and remain undisturbed for 1 week.

Treatments were challenged weekly with a fresh cohort of laboratory reared larvae, when 25 third instar larvae of *Ae. aegypti* were added per container. 1 g of ground up mouse food was added to each container as larval food.

Adult emergence was assessed by counting pupal skins 1 week after the larvae had been added. After assessment of efficacy, the water in each container was stirred and 50% of water in each container was removed and replaced with the same amount of fresh tap water. Water replacement was done once every week. Ambient temperatures at the site during the study were between 24°C and 37°C.

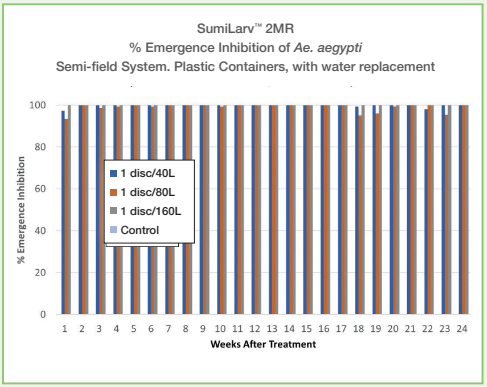


Figure 1

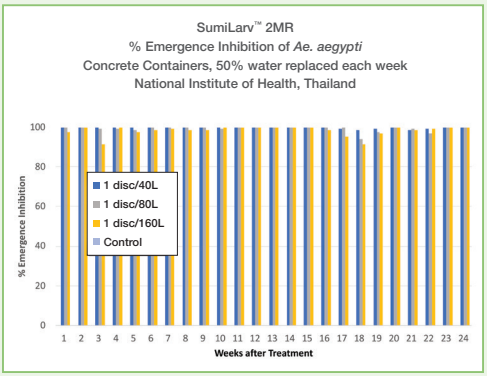


Figure 2

SumiLarv 2MR gave Emergence Inhibition (EI) of *Ae. aegypti* for the duration of the 24 week trial.

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