



syngenta

SYNGENTA AND MALARIA

Syngenta's corporate goals include those dedicated to the improvement of health and quality of life.

We believe that people around the world deserve to live their lives uninterrupted by malaria.

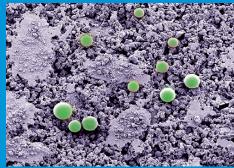
Therefore, we are investing in the advanced tools required to meet both today's and tomorrow's challenges in malaria mosquito control.

ACTELLIC®300CS

Actellic®300CS is a new long-lasting microencapsulated formulation of the organophosphate insecticide pirimiphosmethyl.

Actellic 300CS has been specifically designed for use in indoor residual spraying (IRS) programs to provide up to one year's residual control of mosquitoes and other public health pests.

It is effective against pyrethroid resistant *Anopheles, Aedes* and *Culex* species.



Actellic 300CS capsules stay intact after Mosquitoes pick up capsules application: Capsules on concrete



from treated surfaces: Capsule on mosquito tarsae

Control of pyrethroid resistance

Insecticide resistance, particularly to pyrethroids, is a significant threat to the success of vector control programs and therefore malaria control and elimination targets.

Actellic 300CS has demonstrated long-lasting residual control of pyrethroid resistant strains of mosquitoes in both the laboratory and in field hut trials.

Trial 1 and 2: London School of Hygiene and Tropical Medicine; Tanzania Oxborough et al (2009) applied Actellic 300CS to cement plaques and demonstrated control of pyrethroid resistant Culex quinquefasciatus and Anopheles arabiensis.

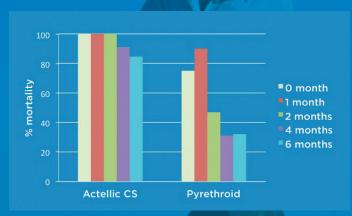
Trial 3: London School of Hygiene and Tropical Medicine; Benin

Hut trials by Rowland et al (2013) demonstrated Actellic 300CS controlled pyrethroid resistant populations of Anopheles gambiae for at least 8

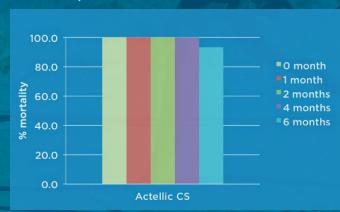
Trial 4: Swiss Tropical and Public Health Institute; Cote d'Ivoire Hut trials in Mbe by Tchicaya et al (2013) demonstrated Actellic 300CS provided >70% control of free-flying pyrethroid resistant *Anopheles gambiae* for 7 months.



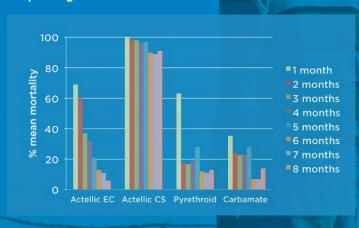
Trial 1. At least 6 months control of pyrethroid resistant Culex quinquefasciatus.



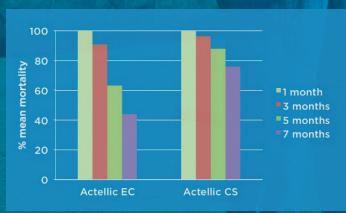
Trial 2. At least 6 months control of pyrethroid susceptible strain of *Anopheles arabiensis*.



Trial 3. At least 8 months control of pyrethroid resistant Anopheles gambiae.



Trial 4. At least 70% control of free-flying *Anopheles gambiae* for 7 months.







Resistance management

- ► Controls pyrethroid resistant strains of Anopheles and Culex
- Ideal rotation or mixture partner for Icon 10CS in IRS or pyrethroid LLITNs

Long-lasting IRS

- Up to one year's long-lasting performance across a wide range of surfaces
- Potential for only one application per season

User acceptance

- High levels of user acceptance demonstrated in field trials
- Controls a wide range of nuisance pests including mosquitoes, flies, cockroaches, and other crawling insects

FOR LIFE UNINTERRUPTED™



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