# Groundbreaking control starts now

Vanecto® Cockroach Gel Bait features a novel active ingredient and mode of action, highly attractive bait and horizontal transfer, for more complete population control.

Vanecto® Cockroach Gel Bait

syngenta®

## Next generation chemistry

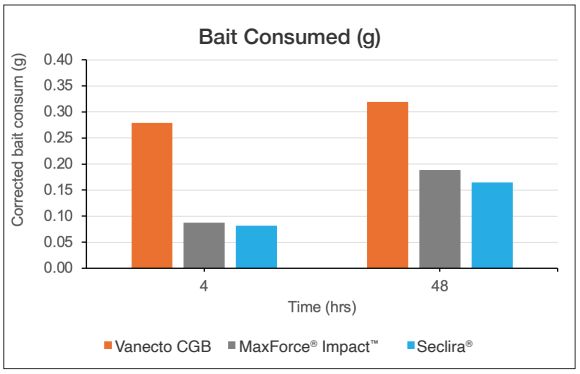
Powered by PLINAZOLIN® technology, an all-new active ingredient, Isocycloseram, from the Isoxazoline group (IRAC Group 30), and featuring a new mode-of-action, GABA antagonist, Vanecto Cockroach Gel Bait sets a new standard in cockroach control in Canada. Working through both contact and ingestion, this innovative mode of action binds to the GABA receptor of the target pest's nervous system, blocking the flow of chloride ions responsible for inhibiting muscle contraction, meaning muscles only contract and cannot relax. This hyperexcitation of the nervous system presents as uncoordinated movements and rapid muscle contractions, until the pest becomes moribund and dies.

Effective against all major cockroach species and resistant populations, Vanecto Cockroach Gel Bait maintains long-lasting performance for reliable control.

## Bait matrix performance

Vanecto Cockroach Gel Bait features a highly attractive bait matrix that maximizes acceptance and consumption by cockroaches, even in bait-averse populations. Its superior palatability displays greater initial preference and overall consumption in comparative studies against leading market standards. Greater bait consumption supports horizontal transfer, or secondary mortality, throughout the entire cockroach populations.

Overall bait consumption calculated during a 2024 Horizontal Transfer study displays both greater total bait consumption at 48 hours, as well as displays initial bait preference for Vanecto Cockroach Gel Bait with 3 times the consumption of leading competitors at 4 hours.



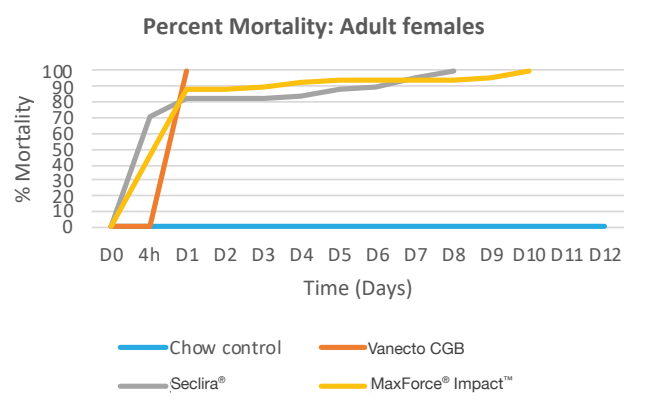

Graph displays corrected bait consumption, which accounts for natural weight loss and gain.
Source: Dr. Coby Schal, North Carolina State University, Raleigh, NC, USA, 2024.

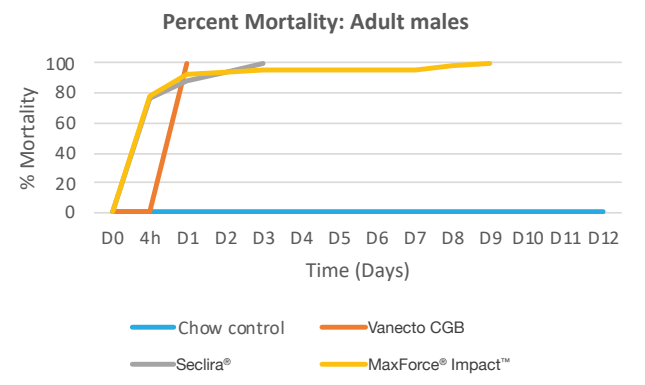
## Horizontal transfer benefits

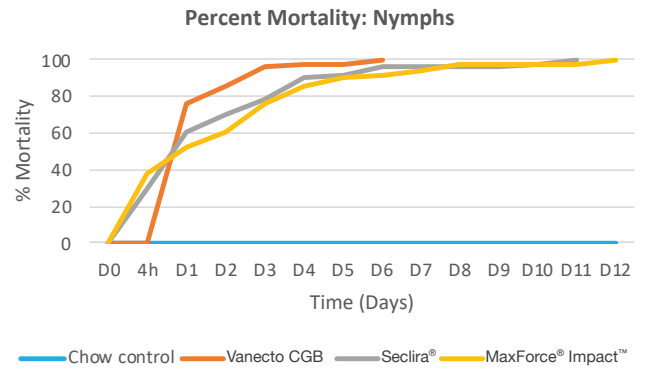
Horizontal transfer occurs when the active ingredients contained within baits or liquid sprays are passed from one pest individual to another within the population. If enough insecticide is passed, horizontal transfer may result in secondary and tertiary kills. This phenomenon is imperative in gaining control over cockroach populations where the mobility and foraging behaviours differ between males, females and nymphs. The high palatability of bait, combined with typical cockroach behaviours, such as coprophagy (ingestion of feces), emetophagy (ingestion of regurgitates and secretions), and necrophagy (cannibalization of dead cockroaches), all lead to horizontal transfer of insecticides like Vanecto Cockroach Gel Bait.

Primary and secondary control of Vanecto Cockroach Gel Bait through Horizontal Transfer was tested, with Vanecto Cockroach Gel Bait being the only treatment to achieve 100% control over 1st instar nymphs within 1 day of exposure.

## PRIMARY CONTROL



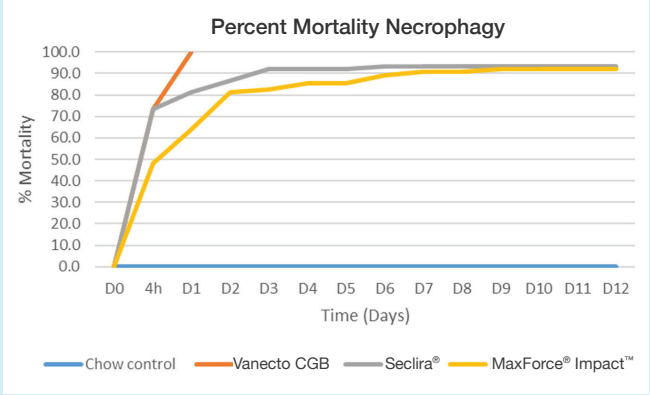

In both male and female populations, while competitors displayed greater initial kill, Vanecto CGB reached 100% mortality by day 1, much earlier than Seclira® (Day 8 females / Day 3 males) and MaxForce® Impact™ (Day 10 females / Day 9 males).

In nymphs, Vanecto CGB surpassed 90% control by day 3, achieving 100% kill by day 6. Seclira® and MaxForce® Impact™ achieved 90% control by day 4 and 5, and 100% kill by day 11 and 12 respectively.

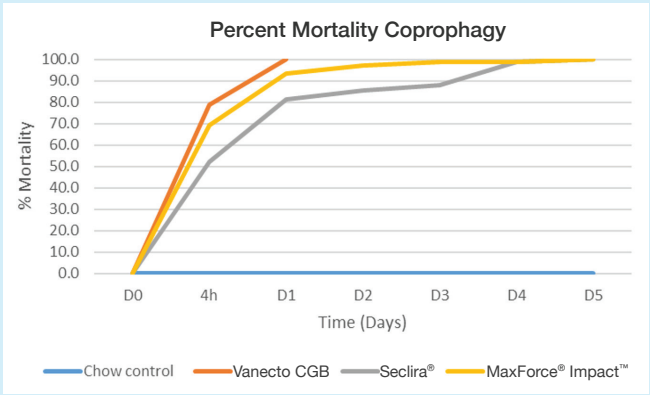
Source: Dr. Coby Schal, North Carolina State University, Raleigh, NC, USA, 2024.

## SECONDARY CONTROL OF 1ST INSTAR NYMPHS

Phase 2 demonstrates daily % mortality of 1st instar nymphs after horizontal transfer. The delayed mortality in phase 1 supports horizontal transfer and improved secondary control, by ensuring return to harborages of exposed pests.




Necrophagy: Dead cockroaches from Phase I were moved to a new enclosure with chow, water and a clean shelter. First instar nymphs were added. 100% mortality achieved by D1 of nymphs feeding on donors that consumed Vanecto Cockroach Gel Bait.




Coprophagy: First instar nymphs were added to the original cage containing feces from Phase 1. 100% mortality achieved by D1 of nymphs feeding on feces that consumed Vanecto Cockroach Gel Bait.

Source: Dr. Coby Schal, North Carolina State University, Raleigh, NC, USA, 2024.

| Active ingredient | Concentration | Use sites | Application | Pack size |
|---|---|---|---|---|
| Isocycloseram | 1% | Commercial, industrial, and residential | Indoor or outdoor. Crack and crevice, spot, void | 5 x (4 x 30 g) |

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