



Bio-pesticide for Red Imported Fire Ants

Novel bioactive ingredients for next-gen products

The Problem



The economic impact

Imported fire ants cause billions in damage across homes, agriculture, livestock, and infrastructure.



The technology gap

Only two active ingredients exist today — both over 25 years old.



The pain point

Backyards, gardens, and small farms lack a safe, effective, and environmentally friendly fire ant control option.



The global spread

Infestations continue to expand internationally, including Australia, Taiwan, and China.

→ **There is an urgent need for a new, safe, and cost-effective biodegradable formulation for fire ant control**

Our Technology

A new bioactive approach

Novel peptide and tyramine-based active ingredients that deliver strong lab and field performance.

Naturally derived ingredients

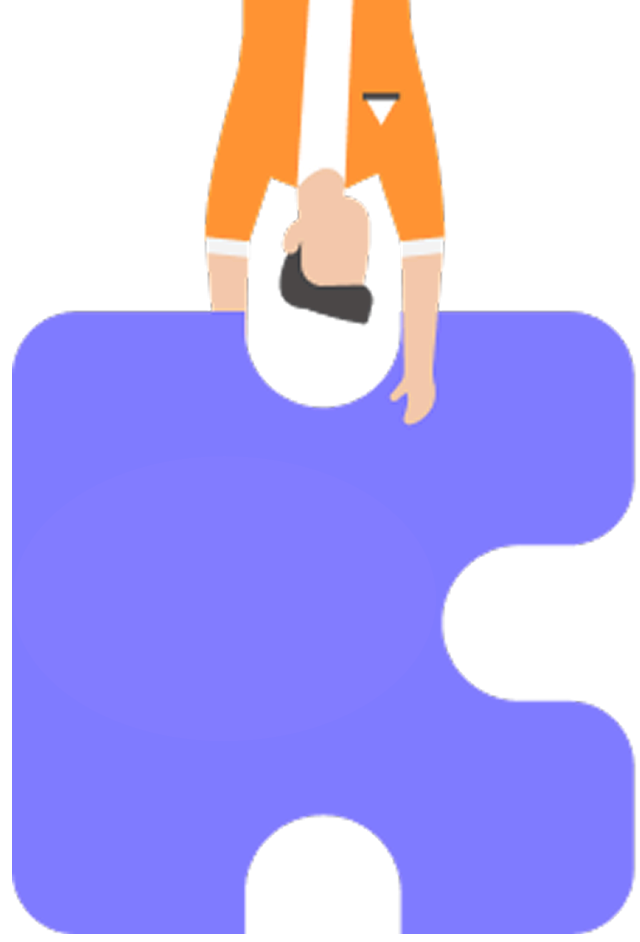
Safe, scalable components with an environmentally neutral profile.

Breakthrough taste-masking

Cyclodextrins hide the bitterness of the actives, allowing ants to fully consume the bait.

First innovation in decades

A modern solution that overcomes the limitations of existing fire ant control products.



A large, underserved market

Fire ants cause significant economic losses across multiple sectors.

Room for disruption

A new bioactive ingredient can reshape the market after decades of stagnation.

Current options miss the small-grower segment

Backyard users and small farms lack a safe, convenient bait alternative.

Platform potential

The technology can extend to other major pest species and international markets.

Market Opportunity



Awards & USDA Collaboration



National-level recognition

Recipient of multiple USDA SBIR Phase I & II awards for fire ant control innovation.



Proven scientific contribution

Breakthroughs published in leading peer-reviewed journals.



Patent-protected technology

- US10568320B2: Biologically-based control methods for insect pests
- U.S. Patent Application Serial No. 19/290,523: Pest ant bait compositions and methods - application filed



A formal federal partnership

Developed under a CRADA collaboration with USDA-ARS.



A track record of innovation

Team recognized with national awards for technology transfer and impact.

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