

## Biogenets attractant for Asian tiger and yellow fever mosquitoes

The attractant is an artificial odor that mimics scents found on human skin and was developed to enhance the attractiveness of traps for mosquitoes.

- The Biogenets attractant is **especially attractive** to the **Asian tiger mosquito (*Aedes albopictus*)**, the **yellow fever mosquito (*Aedes aegypti*)**, the Polynesian tiger mosquito (*Aedes polynesiensis*), and in some regions also to the southern house mosquito (*Culex quinquefasciatus*).
- It is the first attractant to be **scientifically proven to enhance the efficacy of many different trap types**.
- It also **increases the attractiveness of CO<sub>2</sub>** for many species.
- Biogenets received **EPA registration** for the attractant „BG-Sweetscent“ (EPA Reg. No.: 87 472 - 1) in the United States of America.
- Biogenets attractants are **internationally patented**.



# Versions of the Biogents attractant

The Biogents attractants are offered in two different versions:

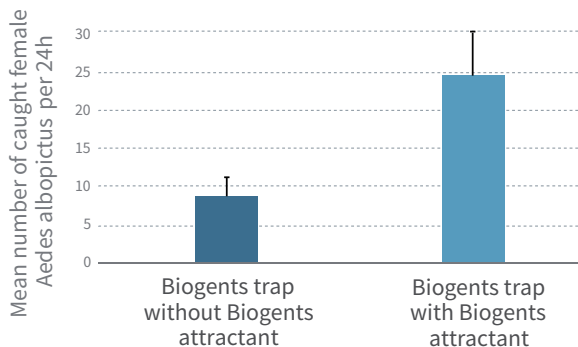


- The „BG-Sweetscent “ lasts up to 2 months, was developed for the end consumer market. BG-Sweetscent is EPA registered in the USA.

## Proven efficacy of Biogents attractants

Numerous studies show that Biogents traps with Biogents attractants are by far the best tools on the market to collect *Aedes albopictus*, *Aedes aegypti*, and *Aedes polyne-siensis*. For example, in a study in Cesenatico (Italy) where the Asian tiger mosquito is widespread, a study with Biogents traps showed a 3-fold increase in the catch rates of *Aedes albopictus* when using a trap with Biogents attractants versus traps without an attractant:

Mean catch rates of *Aedes albopictus* in BG-Sentinel traps with and without BG-Lure



Field trial report by C. Degener and A. Poppek, 2008: BG-Sentinel and BG-Lure: Field trials in Cesenatico. 11 testing days.

# In many traps, Biogents attractants also increase catch rates for Asian tiger and yellow fever mosquitoes

**Highest catch rates** are achieved when using the **Biogents attractant in combination with a Biogents** trap.

The attractants are also the first that have been **scientifically proven to enhance the efficacy of many different trap types** for *Aedes aegypti* and *Aedes albopictus*. Scientific studies show that in some cases Biogents attractants can increase the catch rates of other commercially available mosquito traps up to 16 fold.

Factor by which the catch was increased with Biogents attractant in different traps

|                              | Mosquito Magnet Liberty <sup>3</sup> | MosClean UV LED <sup>1</sup>     | Dynatrap DT2000XL <sup>1</sup>             | Bite Shield Protector <sup>1</sup>         | Blue Rhino Bite-Guard SVE6211 <sup>1</sup> |
|------------------------------|--------------------------------------|----------------------------------|--|--|--|
| <b>Yellow Fever Mosquito</b> | <b>16 x</b>                          | <b>10 x</b>                      | <b>6 x</b>                                 | <b>10 x</b>                                | <b>1.2 x</b>                               |
|                              |                                      |                                  |  |  |  |
|                              | MosClean UV LED <sup>1</sup>         | Dynatrap DT2000XL <sup>1</sup>   | Bite Shield Protector <sup>1</sup>         | Blue Rhino Bite-Guard SVE6211 <sup>1</sup> |  |
| <b>Asian Tiger Mosquito</b>  | <b>4.5 x</b>                         | <b>2 x</b>                       | <b>9 x</b>                                 | <b>2 x</b>                                 |  |
|                              |                                      |                                  |  |  |  |
|                              | Mosquito Magnet <sup>2</sup>         | Dynatrap DT1000-12V <sup>1</sup> | Blue Rhino Bite-Guard SVE6211 <sup>1</sup> | Black Flag <sup>1</sup>                    |  |
| <b>Asian Tiger Mosquito</b>  | <b>8 x</b>                           | <b>2 x</b>                       | <b>3 x</b>                                 | <b>4 x</b>                                 |  |

<sup>1</sup> Conference paper: M. Geier, D. Kline, S. Willis, J. Urban and S. Gordon (2017) Biogents Sweetscent Lure increases the collection rates of *Aedes aegypti* and *Aedes albopictus* in commercially available homeowner mosquito traps, Poster, February 2017, San Diego, CA, American Mosquito Control Association. Link to the poster: <https://www.biogents.com/pdf/aaa.pdf>

<sup>2</sup> Willis, S. et al. (2015): Mosquito Trap Comparisons Using Biogents Lures. Louisiana Mosquito Control Association

<sup>3</sup> Kröckel U., Rose A., Eiras Á.E. & Geier M. (2006) New tools for surveillance of adult yellow fever mosquitoes: Comparison of trap catches with human landing rates in an urban environment. Journal of the American Mosquito Control Association 22: 229-238.

# Technology

MADE IN GERMANY 

Biogenents attractants are safe and easy to use. Using controlled-release technology developed in Germany, a combination of three components found on human skin are specially formulated to imitate the scent of a human body.

- A more natural emission pattern– this cocktail of active molecules is optimally released to resemble the natural emission of human skin odors.
- Protection **against enviromental influence** – the waterproof envelope allows a diffusion of the components through the packaging membrane. At the same time the components are protected against rain, humidity and light.
- **Excellent emission profile** – the active ingredients are formulated into polymeres that allow a controlled release of the attractant over the lifetime of the lure.



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**Biogenents**

HK Misting Limited  
25/F Room S, Blk 2  
Goldfield Industrial Building  
144-150 Tai Lin Pai Road, Kwai Chung, NT

Phone: 5169 0800  
Fax: 2610 0216  
E-mail: [admin@hkmisting.com](mailto:admin@hkmisting.com)

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