

Technical Document DROSO PRO Classic



DROSO PRO® classic is a bottle dispenser containing a specific attractant of *D. suzukii*. The dispenser contains 47g of formulation and is made for use in monitoring of *Drosophila suzukii*.

Presentation

DROSO PRO® classic is a plastic vial made of Polyethylene Terephthalate containing a *D. suzukii* attractant (4,9g) derived from a kairomone blend reported in the literature.



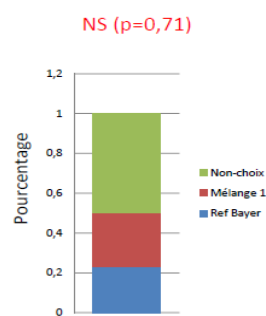
DROSO PRO® classic attractant:

M2i, based on the identification of *D. suzukii* kairomone by Landolt, has developed a new aqueous attractant formulation for *D. suzukii*.¹ The formulation developed by M2i slightly differs from Landolt identification and was shown to be more attractive to *D. suzukii* than the reported blend by Landolt. Below graph shows how M2i attractant compares to Landolt attractant in a competitive bioassay (Y-tube olfactometer experiment) against a reference product. This demonstrated that *D. suzukii* is more attracted to M2i formula than the reference (Standard bait) while the Landolt's mixture attracted more or less the same number of insect than the reference product tested.

¹ Cha DH1, Adams T, Werle CT, Sampson BJ, Adamczyk JJ Jr, Rogg H, Landolt PJ., A four-component synthetic attractant for *Drosophila suzukii* (Diptera: Drosophilidae) isolated from fermented bait headspace. *Pest Manag Sci.* 2014 Feb;70(2):324-31
Jana C. Lee, Hannah J. Burrack, Luz D. Barrantes, Elizabeth H. Beers, Amy J. Dreves, Kelly A. Hamby, David R. Haviland, Rufus Isaacs, Tamara A. Richardson, Peter W. Shearer, Cory A. Stanley, Doug B. Walsh, Vaughn M. Walton, Frank G. Zalom, Denny J. Bruck, Evaluation of Monitoring Traps for *Drosophila suzukii* (Diptera: Drosophilidae) in North America, *J Econ Entomol*(2012)105 (4): 1350-1357
Cha DH, Adams T, Rogg H, Landolt PJ, Identification and field evaluation of fermentation volatiles from wine and vinegar that mediate attraction of spotted wing *Drosophila*, *Drosophila suzukii*. *J Chem Ecol.* 2012 Nov;38(11):1419-31. doi: 10.1007/s10886-012-0196-5. Epub 2012 Oct 13.
Cha DH, Hesler SP, Cowles RS, Vogt H, Loeb GM, Landolt PJ, 2013. Comparison of a synthetic chemical lure and standard fermented baits for trapping *Drosophila suzukii* (Diptera: Drosophilidae). *Environmental Entomology*, 42(5):1052-1060.

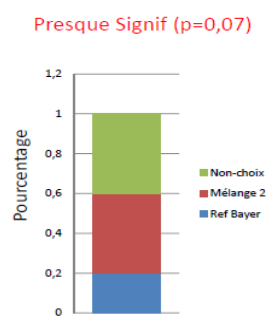
■ No choice
■ Reference product

56 females
13 choice ref product
15 choice



Landolt's attractant

40 females
8 choice ref product
16 choice



M2i attractant

Components of the formulation

Components
Ethanol 96%
Acetic acid
Water
Acetoin
Ethyl-3R-3-hydroxybutyrate
Methionol (Methylthio-1-propanol)
2-phenyl ethanol
Diethyl succinate
Methyl eugenol

Shelf life:

The product has been formulated to allow a **constant diffusion above 55 days** in normal weather conditions (30°C daytime temperature).

Intended uses:

DROSO PRO® classic was developed to selectively monitor population of *D. suzukii*

Depending on the topology of the field/area to be monitored – 1/2 traps per 1000 m² is advisable.

It is recommended to use **DROSO PRO® classic** with the Droso trap.

Storage conditions :

DROSO PRO classic must be kept in a cool well-ventilated area in its original packaging, away from heat and sources of ignition at a temperature < 30°C. Under these conditions it may be stored for 30 months.

Method of use :

1. Place the trap in the field. Fill the bottom of the trap with water.
2. Remove the dispenser cap, to activate it and place it in the trap. Replace the lid on the trap. The trap is ready to use.