



Catalog April 2022

M2i Biocontrol agreement n°9200007

Common products

	Targeted plant/fruit	Pest	M2i Product	Semiochemical molecules (sex pheromone/food attractant)	Use	Associated traps	Diffusion periods	Availability
Forestry	Chestnut	Horse-chestnut leaf miner (<i>Cameraria ohridella</i>)	Cameraria Pro Caps®	8E,10Z-Tetradecadienal (sex pheromone)	Monitoring	Delta	90 days	10 days¹
	Oak	Oak processionary moth (<i>Thaumetopoea processionea</i>)	Oak T Pro Caps®	11Z,13Z-Hexadecadienyl acetate; 11E,13Z-Hexadecadienyl acetate (sex pheromone)	Monitoring	Smart Trap	90 days	10 days¹
	Hardwood, softwood	Gypsy moth (<i>Lymantria dispar</i>)	Dispar Pro Caps®	Cis-7,8-Epoxy-2-methyloctadecane (sex pheromone)	Monitoring	Smart Trap	90 days	On request
	Pine	Pine processionary moth (<i>Thaumetopoea pityocampa</i>)	Pine T Pro Caps®	13Z-Hexadecen-11-yn-1-yl acetate (sex pheromone)	Monitoring	Smart Trap	120 days	10 days¹
	Pine	Pine shoot moth (<i>Rhyacionia buoliana</i>)	Rhyacionia Buoliana Pro Caps®	9E-Dodecenyl acetate (sex pheromone)	Monitoring	Delta	60 days	On request
Field crops	Cotton	Cotton bollworm (<i>Pectinophora gossypiella</i>)	Pecti Pro Caps®	7Z,11Z- & 7Z,11E-Hexadecadien-1-yl acetate (sex pheromone)	Monitoring	Delta	60 days	On request
	Corn	Fall armyworm (<i>Spodoptera frugiperda</i>)	Frugiperda Pro Plus Caps®	9Z-Tetradecen-1-yl acetate; 11Z-Hexadecen-1-yl acetate (sex pheromone)	Monitoring	Smart Trap	90 days	10 days¹
	Corn	Mediterranean corn bore (<i>Sesamia nonagrioides</i>)	Sesamia Pro Caps®	11Z-Hexadecenol; 11Z-Hexadecen-1-yl acetate; Dodecyl acetate; Hexadecenal (sex pheromone)	Monitoring	Delta	90 days	On request
	Rice	Asiatic rice borer (<i>Chilo suppressalis</i>)	Chilo Pro Caps®	Z-11-Hexadecenal (sex pheromone)	Monitoring	Smart Trap	90 days	1 month
	Potato, salad etc.	Wireworms (<i>Agriotes sordidus</i>)	Agriotes Pro Caps®	Geranyl hexanoate (sex pheromone)	Monitoring	Pitfall (black)	90 days	3 months
Gardening	Beetroot	Beet armyworm (<i>Spodoptera exigua</i>)	Exigua Pro Caps®	9Z,12E-Tetradecadienyl acetate; 9Z-Tetradecenol; 11Z-Hexadecenyl acetate (sex pheromone)	Monitoring	Smart Trap	60 days	On request

	Brassicaceae (cabbage, mustard, turnip)	Diamondback moth (<i>Plutella xylostella</i>)	Plutella Pro Caps®	11Z-Hexadecenyl acetate; 11Z-Hexadecen-1-ol, 11Z-Hexadecenal (sex pheromone)	Monitoring	Delta Tuta trap	60 days	10 days¹
	Cabbage	Cabbage moth (<i>Mamestra brassicae</i>)	Mamestra Pro Caps®	11Z-Hexadecen-1-yl acetate, 9Z- Hexadecen-1-yl acetate; Hexadecyl acetate (sex pheromone)	Monitoring	Smart Trap	60 days	3 months
	Cucurbitaceae spp.	Cucurbitae flies (<i>Bactrocera Cucurbitae</i> & <i>Dacus Demmerezi</i>)	Cucurbitae Pro Drop®	Cuelure (food attractant)	Monitoring	Upside down Smart Trap²	120 to 240 days	2 months
	Leak	Leak moth (<i>Acrolepiopsis assectella</i>)	Assectella Pro Caps®	11Z-Hexadecenal; 11Z-Hexadecenyl acetate (sex pheromone)	Monitoring	Delta	90 days	2 months
	Sweet potato	Sweet potato weevil (<i>Cylas formicarius</i>)	Cylas Pro Caps®	3Z-Dodecenyl 2E-butenate (sex pheromone)	Monitoring	Pitfall	90 days	On request
	Tomato	Tomato leafminer (<i>Tuta absoluta</i>)	Tuta Pro Caps®	3E,8Z,11Z-Tetradeca-3,8,11-Trienyl acetate; 3E,8Z-Tetradecadien-1-yl acetate (sex pheromone)	Monitoring	Red tuta trap Red delta	90 days	10 days¹
	Tomato	Cotton bollworm (<i>Helicoverpa armigera</i>)	Armigera Pro Caps®	Z-11-Hexadecenal (sex pheromone)	Monitoring	Smart Trap	90 days	3 months
Ornamental	Box tree	Box tree moth (<i>Cydalima perspectalis</i>)	Box T Pro Caps®	Z-11-Hexadecenal (sex pheromone)	Monitoring	Smart Trap	90 days	10 days¹
	250 host plants (eggplant, cucumber, cyclamen, strawberry, etc.)	Western flower trips (<i>Frankliniella occidentalis</i>)	Frankliniella Pro Caps®	Cyclopropyl methyl isonicotinate; Lavandulyl cyclopropane carboxylate (food attractant)	Monitoring	Blue sticky trap	90 days	10 days¹
	Ornamental plants (cyclamen, begonia, impatiens...) et gardening plants (pepper, celery, lettuces...)	European pepper moth (<i>Duponchelia fovealis</i>)	Fovealis Pro Caps®	13Z-Octadecenal; 11Z-Hexadecenal (sex pheromone)	Monitoring	Delta	60 days	On request
	Palm tree	Red palm weevil (<i>Rhynchophorus ferrugineus</i>)	Rhyncho Pro Classic® (!)	Ferrugineol (aggregation pheromone)	Monitoring	Pitfall (black)	90 to 120 days	10 days¹

Orchard	Citrus tree, coconut tree	Red scale (<i>Aonidiella aurantii</i>)	Aurantii Pro Caps®	(3S, 6RS)-3-methyl-6-(1)-methylethenyl-9-decenyl acetate (sex pheromone)	Monitoring	Sticky trap	90 days	On request
	Citrus trees, ornamental plants	Citrus mealybug (<i>Planococcus citri</i>)	Citri Pro Caps®	Cis-planococcyll acetate (sex pheromone)	Monitoring	Sticky trap	60 days	2 months
	Citrus trees	Citrus leafminer (<i>Phyllocnistis citrella</i>)	Phyllo Pro Caps®	7Z,11Z,13E-Hexadecatrienal; 7Z,11Z-Hexadecadienal (sex pheromone)	Monitoring	Delta	90 days	3 months
	Fruit tree (apricot tree, cherry tree, plum tree, apple tree, etc.)	Mediterranean fruit fly (<i>Ceratitis capitata</i>)	Capitata Pro Caps®	Trimedlure (food attractant)	Monitoring	Upside down Smart Trap ²	60 days	10 days ¹
	Fruit tree (apricot tree, cherry tree), strawberry etc.	Spotted wing drosophila (<i>Drosophila suzukii</i>)	Droso Pro Classic®	Attractive cocktail (food attractant)	Monitoring	Droso	120 à 180 days	10 days ¹
	Avocado tree, coffee tree, peach tree, etc.	False codling moth (<i>Thaumatotibia leucotreta</i>)	FCM Pro Caps®	8E-Dodecen-1-yl acetate; 8Z-Dodecen-1-ol; 8E-Dodecen-1-ol (sex pheromone)	Monitoring	Delta	90 days	3 months
	Banana tree	Banana weevil (<i>Cosmopolites sordidus</i>)	Sordi Pro Classic® (!)	Sordidine (aggregation pheromone)	Monitoring	Pitfall (yellow)	90 days	10 days ¹
	Date palm	Lesser date moth (<i>Batrachedra amydraula</i>)	Batrachedra Pro Caps®	(Z)-5-decenyl acetate 4 (Z)-5-decen-1-ol 4 (Z,Z)-4,7-decadienyl acetate 2	Monitoring	Delta	60 days	On request
	Cherry tree	Cherry fruit fly (<i>Rhagoletis cerasi</i>)	Rhagoletis Pro Caps®	Ammonium acetate; Calcium carbonate (food attractant)	Monitoring	Upside down Smart Trap ⁴	40 days	10 days ¹
	Coconut tree	Rhinoceros Beetle (<i>Oryctes Rhinoceros</i>)	Oryctes Pro Classic® (!)	4-methyl ethyl octanoate (aggregation pheromone)	Monitoring	Pitfall	90 days	On request
	Mango tree, papaya tree, citrus tree, guava tree, etc.	Oriental fruit fly (<i>Bactrocera dorsalis</i>)	Bactrocera Pro Drop®	Methyleugenol (food attractant)	Monitoring	Upside down Smart Trap ²	120 to 240 days	10 days ¹
	Olive tree	Olive fruit fly (<i>Bactrocera oleae</i>)	Olea Plus Pro Caps®	Dibasic diammonium phosphate (food attractant)	Monitoring	Upside down Smart Trap ²	30 days	3 months
	Peach tree, apple tree, etc.	Oriental fruit moth (<i>Grapholita molesta</i>)	Grapholita Pro Caps®	8Z-Dodecen-1-yl acetate (sex pheromone)	Monitoring	Delta	90 days	1 month

	Pear tree	Leopard moth (<i>Zeuzera pyrina</i>)	Zeuzera Pro Caps®	2E,13Z-Octadecadien-1-yl acetate (sex pheromone)	Monitoring	Smart Trap	90 days	On request
	Apple tree, walnut tree	Codling moth (<i>Cydia pomonella</i>)	Cydia Pro Caps®	8E,10E,Dodecadien-1-ol; Dodecanol; 1-Tetradecanol (sex pheromone)	Monitoring	Delta	90 days	10 days¹
	Plum tree	Plum fruit moth (<i>Grapholita funebrana</i>)	Funebrana Pro Caps®	8Z-Dodecen-1-yl acetate (sex pheromone)	Monitoring	Delta	60 days	2 months
	Walnut tree	Walnut husk fly (<i>Rhagoletis completa</i>)	Completa Pro Drop®	δ-heptalactone	Monitoring	Sticky trap	60 days	On request
Vine	Grape	Vine mealybug (<i>Planococcus ficus</i>)	VMB Pro Caps®	Lavandulyl senecioate (sex pheromone)	Monitoring	Sticky trap	60 days	1 month
	Grape	European grape berry moth (<i>Eupoecilia ambiguella</i>)	Cochylis Pro Caps®	9Z-Dodecenyl acetate; Dodecyl acetate (sex pheromone)	Monitoring	Delta	90 days	3 months
	Grape	European grapevine moth (<i>Lobesia botrana</i>)	Lobesia Pro Caps®	7E,9Z-Dodecadienyl acetate (sex pheromone)	Monitoring	Delta	90 days	10 days¹
Stored products	Stored products (wheat, corn, rice, etc.)	Wheat/maize/rice weevils (<i>Sitophilus granarius</i> , <i>S.</i> <i>zeamais</i> , <i>S. oryzae</i>), lesser grain borer (<i>Rhyzopertha dominica</i>), sawtoothed grain beetle (<i>Oryzaephilus surinamensis</i>), red flour/confused flour beetle (<i>Tribolium</i> <i>castaneum/confusum</i>)	Sitophy Pro Caps®	Sitophinone et Dominicalure (aggregation pheromone, food attractant)	Monitoring	Pitfall Probe trap Square trap	90 days	3 months

Mating disruption

	Targeted plant/fruit	Pest	M2i product	Sex pheromone	French AMM N°	Availability
	Peach tree	Oriental fruit moth (<i>Grapholita molesta</i>)	Grapholita Pro Press®	(E/Z)-8-dodecen-1-yl acetate et (Z)- 8-dodecen-1-ol	2210610	On request

Mating disruption	Box tree	Box tree moth (<i>Cydalima perspectalis</i>)	Box T Pro Press®	(Z)-11-Hexadecenal	2189998	On request
	Pine	Pine processionary moth (<i>Thaumetopoea pityocampa</i>)	Pine T Pro Ball®	(Z)-13-hexadecen-11-yn-1-yl acetate	FR-2022-0018	On request
	Grape	European grapevine moth (<i>Lobesia botrana</i>)	Lobesia Pro Spray®	(E,Z)-7,9-dodecadien-1-yl-acetate	2210439	On request
	Apple tree, walnut tree	Codling moth (<i>Cydia pomonella</i>)	Cydia Pro Ball®	(E,E)-8,10-dodecadien-1-ol	2210541	On request

Product packaging

Name of the product	Packaging	Visual
Ball	Paintball-type balls	
Caps	Syringes	
	Sachets	
Classic	Wick diffusers	

Name of the product	Packaging	Visual
Drop	Tubes	
Press Spray	Sealed aluminum pouch Bottle	
Spray	Bottles	

Available traps

Trap type	Target Insects	Associated products examples	Visual
Big Delta	Lepidoptera (small moths) Hemiptera (mealybug)	Armigera Pro Caps®, Cochylis Pro Caps®, Cydia Pro Caps®, Exigua Pro Caps®, Grapholita Pro Caps®, Lobesia Pro Caps®, Plutella Pro Caps®	
Small Delta	Lepidoptera (small moths) Hemiptera (mealybug)	Armigera Pro Caps®, Cochylis Pro Caps®, Cydia Pro Caps®, Exigua Pro Caps®, Grapholita Pro Caps®, Lobesia Pro Caps®, Plutella Pro Caps®	
Standard Smart Trap	Lepidoptera (large moths)	Box T Pro Caps®, Chilo Pro Caps®, Frugiperda Pro Plus Caps®, Oak T Pro Caps®, Pine T Pro Caps®, Zeuzera Pro Caps®	
Upside down Smart Trap ²	Diptera (medium to large flies)	Capitata Pro Caps®, Bactrocera Pro Drop®, Olea Plus Pro Caps®, Rhagoletis Pro Caps®	
Smart Trap + Riser	Diptera (small size moth drosophila type)	Droso Pro Classic®	
Droso	Diptera (small size moth drosophila type)	Droso Pro Classic®	
Pitfall	Coleoptera	Agriotes Pro Caps®, Oryctes Pro Classic®, Rhyncho Pro Classic®, Sitophy Pro Caps®, Sordi Pro Classic®	
Big adhesive plate	Lepidoptera (small moths) Hemiptera (mealybug)	Armigera Pro Caps®, Cochylis Pro Caps®, Cydia Pro Caps®, Exigua Pro Caps®, Grapholita Pro Caps®, Lobesia Pro Caps®, Plutella Pro Caps®	
Small adhesive plate	Lepidoptera (small moths) Hemiptera (mealybug)	Armigera Pro Caps®, Cochylis Pro Caps®, Cydia Pro Caps®, Exigua Pro Caps®, Grapholita Pro Caps®, Lobesia Pro Caps®, Plutella Pro Caps®	
Blue Sticky Trap	Thysanoptera (thrips)	Frankliniella Pro Caps®	
Yellow Sticky Trap	Hemiptera (mealybug)	Aurantii Pro Caps®, Citri Pro Caps®	
Red Tuta Trap	Lepidoptera (small moths)	Plutella Pro Caps®, Tuta Pro Caps®	

* Product usable in mass trapping (see Mass trapping note M2ID-REG-2020-04).

¹ 10 days for a quantity < 2000 units; on request if > 2000 units.

² For the upside down Smart Trap, please refer to the technical sheet of the notified product.

(!) Shipment information: products containing hazardous substance.