

PRODUCT CATALOG CITRUS PEST MANAGEMENT PRODUCTS



Dollop of SPLAT CLM™

Mating disruption product for citrus leafminer. See brochure inside.

ORDER ONLINE!
www.iscotech.com/shop

About ISCA Technologies, Inc.

The mission of ISCA Technologies is to provide integrated pest management solutions that are economical, effective and eco-friendly.

Presently, ISCA's product range comprises more than 300 species-specific semiochemical insect lures and insect traps, and a range of novel pest control tools (such as pest management information systems and automated insect identification devices). ISCA lures are made with the highest quality components available, carefully purified, and optimized for maximum longevity and species specificity. The cost-effective dispensers and traps created by ISCA are based on knowledge generated from a multitude of laboratory and field tests designed to optimize trap catch. ISCA Technologies also possesses state-of-the-art semiochemical synthesis and analysis capabilities, and it is the world's sole source for many difficult to synthesize semiochemicals and pheromones.



ISCA's insect traps and species specific lures in the field.

Why Choose ISCA?

When you purchase products from ISCA, you are purchasing more than just the tangible products that are delivered to you. Your purchase includes many other benefits for yourself and the promotion of environmentally friendly pest management practices:

- Access to ISCA's entomologists and customer service personnel. Read customer testimonials at the ISCA website at: <http://www.iscotech.com/exec/testimonials.htm>.
- Pest management solutions that are field tested to determine optimal lure and dispenser formulation, trap design, and field application criterion such as trap placement, timing, frequency, and density.
- Access to pest management information and product updates regarding your target pest, where applicable, at ISCA's customer support website: <http://www.iscotech.com/exec/customersupport.htm>.
- Your purchase contributes to ISCA's efforts to conduct on-going pest management R&D and participate in collaborative R&D efforts with academic, federal, and state pest management entities that promote the cost-effective application of environmentally friendly integrated pest management (IPM) practices for your target pest and many other pests.
- ISCA's funding supports dozens of pest management researchers and programs in the U.S. and internationally, including UCCE (University of California Cooperative Extension) researchers for olive fruit fly research and ISCA's collaborative efforts with them.
- Confidence that you are getting the best value price for your products.

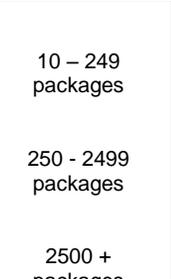


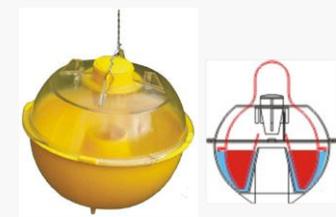
ISCA Technologies possesses state-of-the-art semiochemical synthesis and analysis capabilities. It is the world's sole source for many difficult to synthesize and important semiochemicals and pheromones. Customers include the USDA, state departments of agriculture, growers and grower associations, distributors of consumer pest management products, and pest management researchers and entities in the U.S. and internationally.



ISCA TECHNOLOGIES, INC
1230 Spring St, Riverside, CA 92507, U.S.A.

Product Information *	Quantity	Unit Price
<p>IT 095 ISCALURE-Aurantii for California Red Scale</p> <p>Nature identical, environmentally friendly, rubber septum loaded with pheromone specifically for California Red Scale, <i>Aonidella aurantii</i>. Field life of approximately 4 to 8 weeks. Insect trap sold separately.</p> <p>Packaging: For quantities less than 250 lures, packaged in re-sealable air-tight moisture barrier bag at 10 lures per bag Shelf life: 2 years (or more) if properly stored Storage Information: Store in air-tight bag and place in refrigerator. For longer shelf life of more than 2 years, store bag in freezer</p> 	<p>10 – 240 lures</p> <p>250 - 2490 lures</p> <p>2500 - 9999 lures</p>	<p>For most up-to-date prices, please check the California Red Scale item page here: California Red Scale</p>
<p>IT 203 ISCALURE-Citrella for Citrus Leafminer</p> <p>Nature identical, environmentally friendly, rubber septum loaded with pheromone specifically for Citrus Leafminer, <i>Phyllocnistis citrella</i>. Field life of approximately 4 to 8 weeks. Insect trap sold separately.</p> <p>Packaging: For quantities less than 250 lures, packaged in re-sealable air-tight moisture barrier bag at 10 lures per bag Shelf life: 2 years (or more) if properly stored Storage Information: Store in air-tight bag and place in refrigerator. For longer shelf life of more than 2 years, store bag in freezer</p> 	<p>10 – 240 lures</p> <p>250 - 2490 lures</p> <p>2500 - 9999 lures</p>	<p>For most up-to-date prices, please check the Citrus Leafminer item page here: Citrus Leafminer</p>
<p>IT 203-K10 Citrus Leafminer Starter Kit</p> <p>Starter kit for the management of the citrus leafminer, <i>Phyllocnistis citrella</i>. This kit includes:</p> <ul style="list-style-type: none"> • 10 x AR907 Paper Delta Traps • 10 x IT203 ISCALURE Citrella • 1 x Species specific instruction sheet <p>Packaging: For quantities less than 250 lures, packaged in re-sealable air-tight moisture barrier bag at 10 lures per bag Shelf life: 2 years (or more) if properly stored Storage Information: Store in air-tight bag and place in refrigerator. For longer shelf life of more than 2 years, store bag in freezer</p> 		<p>For most up-to-date prices, please check the Citrus Leafminer Starter Kit item page here: Citrus Leafminer Starter Kit</p>

Product Information *	Quantity	Unit Price
<p>AR905 Plastic Delta Trap</p> <p>Plastic delta trap bodies are made of corrugated plastic. They are sturdy and durable, rain and UV proof traps. When deployed, sticky liner is internal and therefore protected from rain, UV and dust. Low cost replacement sticky liner is available. Sticky liner surface has printed grid for easy insect counting.</p> <p>Packaging: Sold in packages of 10 trap sets per package. Available in white, yellow-striped, and red-striped color. Each trap set comprises 1 reusable trap body with hanger and 2 disposable sticky liners.</p> <p>Dimensions: 28 x 20 x 15 cm (11 x 8 x 6 in).</p>	  <p>1 – 24 packages</p> <p>25 – 249 packages</p> <p>250 - 2499 packages</p> <p>AR905L Replacement sticky liner (10 per package):</p> <p>1 – 24 packages</p> <p>25 – 249 packages</p> <p>250 – 2499 packages</p>	<p>For most up-to-date prices, please check the Plastic Delta Trap item page here: Plastic Delta Traps</p> <p>For most up-to-date prices, please check the Plastic Delta Trap Liner item page here: Plastic Delta Trap Liner</p>
<p>AR907 Paper Delta Trap</p> <p>Paper delta traps are low cost, rain and UV proof, easy to use and assemble, and allows for rapid deployment and a quick tally of the insect population estimates. When deployed, glue is internal and therefore protected from rain, UV, and dust.</p> <p>Packaging: Sold in packages of 10 traps per package. Available in white, yellow, red and green color.</p> <p>Dimensions: 12 x 10 x 18 cm (5 x 4 x 7 in)</p>	 <p>1 – 24 packages</p> <p>25 - 249 packages</p> <p>250 - 2499 packages</p>	<p>For most up-to-date prices, please check the Paper Delta Trap item page here: Paper Delta Trap</p>
<p>AR915 Green Panel Trap with Wet Glue Optimized for Asian Citrus Psyllid</p> <p>Green panel traps are designed to attract the Asian citrus psyllid, <i>Diaphorina citri</i>, for the purpose of monitoring and trapping. These traps are made of a durable cardboard material which is colored with the proven yellow/green pigment. Glue is applied to both sides of the trap and is protected with easy peel off paper for each glue surface. Sticky surface has printed grid for easy insect counting.</p> <p>Packaging: Sold in packages of 10 traps per package.</p> <p>Dimensions: 5.75 x 7.5</p>	 <p>10 – 249 packages</p> <p>250 - 2499 packages</p> <p>2500 + packages</p>	<p>For most up-to-date prices, please check the Green Panel Trap item page here: Green Panel Trap</p>

Product Information *	Quantity	Unit Price
<p>AR916 Green Panel Trap with Dry Glue Optimized for Asian Citrus Psyllid</p> <p>Green panel traps are designed to attract the Asian citrus psyllid, <i>Diaphorina citri</i>, for the purpose of monitoring and trapping. These traps are made of a durable cardboard material which is colored with the proven yellow/green pigment. Glue is applied to both sides of the trap and is protected with easy peel off paper for each glue surface. Sticky surface has printed grid for easy insect counting.</p> <p>Packaging: Sold in packages of 10 traps per package. Dimensions: 5.75 x 7.5</p>	 <p>10 – 249 packages</p> <p>250 - 2499 packages</p> <p>2500 + packages</p>	<p>For most up-to-date prices, please check the Green Panel Trap item page here: Green Panel Trap</p>
<p>AR934 ISCA Ball Trap™ (Improved McPhail Trap)</p> <p>ISCA's Ball Trap™, an improved version of the McPhail trap, is used for trapping a wide variety of fruit flies and other flying insects. The ISCA Ball trap was developed based on feedback from a wide variety of growers and entomologists regarding the pros and cons of the traditional McPhail Trap, which has resulted in improvements in many areas of trap catch and trap maintenance:</p> <ul style="list-style-type: none"> > Ability to hold twice the volume of liquid attractants (such as torula yeast solution or hydrolyzed protein) and rounder shape exposes less surface area to evaporation, contributes to lower labor cost of trap maintenance, and higher duration of trap effectiveness. See the results of a competitive trap field study on evaporation rate here: http://www.iscatech.com/exec/DocLib/Field_Study_-_Evaporation_Rate.pdf > Greater depth of the plastic trap bottom minimizes liquid lure spillage (for example: during periods of strong winds). > A multi-purpose, larger and centralized lure receptacle to hold a wider variety of solid and liquid attractants: plugs, rubber septa, tapes, wafers, cotton plugs, sachets, capsules and ISCA's novel SPLAT formulations. > High quality transparent polycarbonate plastic top to improve the ability to count and identify insect species, and to better withstand low level drops without cracking the plastic. > A bigger and rounder shape results in a trap that better mimics a fruit and better captures the attention of insects. Without sharp angled edges around the trap entrance, the trap also enhances the ability of insects to travel into it. > Lower cost version without lure receptacle is available. > Some insect species are attracted to specific colors. A variety of trap colors are available for the appropriate insect species. 	 <p>With Lure Receptacle (AR934A):</p> <p>1 - 24</p> <p>25 - 249</p> <p>250 - 2499</p> <p>Without Lure Receptacle (AR934B):</p> <p>1 - 24</p> <p>25 - 249</p> <p>250 - 2499</p>	<p>For most up-to-date prices, please check the Ball Trap with Receptacle item page here: ISCA Ball Trap with Receptacle</p> <p>For most up-to-date prices, please check the Ball Trap without Receptacle item page here: ISCA Ball Trap without Receptacle</p>

Product Information *	Quantity	Unit Price
<p>SPLAT CLM For Mating Disruption Control of Citrus Leafminer</p> <p>SPLAT CLM combines nature identical CLM pheromone with SPLAT to control citrus leafminer (CLM), <i>Phyllocnistis citrella</i>, using the environmentally friendly mating disruption control strategy. Unlike wide spectrum insecticides which may impact beneficial insects (such as bees), or may cause insecticide resistance or build-up or insecticide drift, SPLAT CLM is species specific and does not cause any of these aforementioned issues. CLM is also resistant to many foliar insecticide treatments since the damage-causing larvae are protected inside the leaves. SPLAT CLM prevents larval damage by disrupting the mating of CLM with the controlled release of the nature-identical CLM pheromone. Recommended with use of IT203 ISCALURE Citrella and Delta traps for monitoring. IT203 ISCALURE Citrella and Delta traps sold separately. For more information about SPLAT CLM and its check the SPLAT CLM Information Page</p> <p>Shelf life: 2 years (or more) if properly stored Storage Information: Store SPLAT in the provided bucket in a cool and dry place. For longer storage life, store bucket in a refrigerator at 4 degrees Celsius, do not freeze.</p>	 <p>250 g Caulking tube (for manual application on plots between 2.5–15 acres)</p>  <p>2.5 kg – 14 kg (for mechanical application on plots between 16-100 acres)</p> <p>15kg or more (for mechanical application on plots greater than 100 acres)</p>	<p>For most up-to-date prices, please check the SPLAT CLM item page here: SPLAT CLM</p>
<p>SPLAT CL : SPLAT Cuelure Fruit Fly Attractant For Monitoring and/or Mass Trapping of Selected Fruit Fly Species</p> <p>Active ingredient: 20% environmentally friendly, fruit fly specific para-pheromone in SPLAT controlled release formulation. Please consult ISCA about applicable fruit fly species. Fruit fly specific instruction sheets are included with order.</p> <p>For more information about SPLAT, view the brochure on the ISCA website: ISCA SPLAT (Specialized Pheromone and Lure Application Technology)</p> <p>Packaged in 10.3 oz caulk gun cartridge. Each cartridge contains 200 grams of SPLAT CL, which is equivalent to 50 lures at 4 grams per lure. Dispensed using high productivity, low cost, easy to use, re-useable, off-the-shelf caulk gun. Metered caulk gun can be used for increased application productivity. Caulk gun not included.</p> <p>Field life: 4 to 8 weeks depending on environmental conditions, based on 4 grams of SPLAT CL per lure. Recommended trap: ISCA Ball Trap (AR934A) Storage information when unopened: Store caulk gun cartridge in cool and dry place; for longer storage life, store cartridge in refrigerator at 4 degrees Celsius.</p>	   <p>1 – 24 cartridges</p> <p>25 – 249 cartridges</p>	<p>For most up-to-date prices, please check the SPLAT Cuelure item page here: SPLAT Cuelure</p>

Product Information *	Quantity	Unit Price
<p>SPLAT ME : SPLAT Methyl Eugenol fruit fly attractant for monitoring and/or mass trapping of selected fruit fly species</p> <p>Active ingredient: 50% environmentally friendly, fruit fly specific para-pheromone in SPLAT controlled release formulation. Please consult ISCA about applicable fruit fly species. Fruit fly specific instruction sheets are included with order.</p> <p>For more information about SPLAT, view the brochure on the ISCA website: ISCA SPLAT (Specialized Pheromone and Lure Application Technology)</p> <p>Packaged in 10.3 oz caulk gun cartridge. Each cartridge contains 200 grams of SPLAT ME, which is equivalent to 50 lures at 4 grams per lure. Dispensed using high productivity, low cost, easy to use, re-useable, off-the-shelf caulk gun. Metered caulk gun can be used for increased application productivity. Caulk gun not included.</p> <p>Field life: 4 to 8 weeks depending on environmental conditions, based on 4 grams of SPLAT ME per lure. Recommended trap: ISCA Ball Trap (AR934A) Storage information when unopened: Store caulk gun cartridge in cool and dry place; for longer storage life, store cartridge in refrigerator at 4 degrees Celsius.</p>	   <p>1 – 24 cartridges</p> <p>25 – 249 cartridges</p>	<p>For most up-to-date prices, please check the SPLAT Methyl Eugenol item page here: SPLAT Methyl Eugenol</p>

* Product information as shown should be used as a general guide. Actual experience will vary depending on many factors. Product information and price is valid at time of printing but is subject to change.

Research Findings From Published Papers

“This product not only controls CLM, but does reduce the incidence of canker.”

Lukasz Stelinski, PhD
University of Florida, CREC

“We evaluated SPLAT containing citrus leafminer pheromone components and found it to be highly effective in both disrupting male leafminer’s ability to find females and in reducing subsequent leafminer injury.”

Stephen Lapointe, PhD
USDA Horticultural Research Laboratory

“Large scale commercial deployment of SPLAT CLM for leafminer management will have no negative impact on the wide complex of natural enemies that are known to limit leafminer population growth in citrus.”

Michael Rogers, PhD
University of Florida, CREC

Product Information

- Mating disruption control products including SPLAT CLM are generally not recommended to protect plots of less than 2.5 acres or individual trees. To monitor and manage CLM in individual trees, consider ISCALure Citrella [here](#)
- Mating disruption control can be considered for plots of less than 2.5 acres if:
 - the plot is enclosed, such as enclosed greenhouse, or
 - the vicinity outside the plot does not have CLM host plants within a distance of 500 yards outside the plot.
- Please contact ISCA if you wish to apply SPLAT CLM in small plots of less than 2.5 acres.
- Mechanical application of SPLAT CLM is not recommended for small trees of less than 2 years. For small trees, please use the 250 kg caulking tube for manual application.
- CLM monitoring using species specific pheromone trap [ISCALure Citrella](#) should be a part of your SPLAT CLM mating disruption control program. Please [contact us](#) to learn more about implementing SPLAT CLM mating disruption control.
- For more product information: <http://www.iscotech.com/exec/SPLATCLM.htm>

Terms and Conditions

- Per acre prices are calculated based on application density with skipped row applications of 140 grams of SPLAT CLM per acre.
- ISCA cannot guarantee availability of order quantity if non-refundable deposit is received less than 4 weeks before anticipated ship date.
- Please contact ISCA for contact information of mechanical applicators with SPLAT CLM application experience.

Order Placement, Payment and Delivery Information

- Prices are shown in US\$ and are valid only for calendar year 2012.
- Prices do not include prevailing California sales tax, applicable for California customers.
- Depending on quantity ordered, prices are FOB Riverside, California. Actual freight cost will be shown in invoice or you may request for an estimate.
- Prices do not include costs of mechanical application, if any. Though ISCA may provide customers with information about possible independent mechanical applicators for consideration, ISCA is not responsible or liable for any matters between customer and independent mechanical applicator.
- Please inform us if you need to use a specific freight carrier. ISCA Technologies can arrange to ship your product with most major freight carriers. Please inform us of any special request for delivery or packaging, extra charges may apply e.g. for rush deliveries.
- ISCA Technologies' standard terms and conditions of sale apply, which can be viewed [here](#), or you may request that a copy be e-mailed or faxed to you.
- To place your order, please send your purchase order to ISCA, or go to www.iscotech.com/ecommerce.
- Payment options: credit card (Visa, Mastercard, American Express and Discover), check, or wire transfer. Please provide information about payment option in your purchase order or order confirmation.

“At ISCA Technologies, we have the capability, not just to develop solutions using traditional integrated pest management (IPM) approaches, but also to take a multi-disciplinary approach where necessary, incorporating the latest advances in insect chemical ecology, microbiology, engineering, and information technology to develop field test and cost-effective pest management solutions. We also have the experience and capability to develop and manage the scale up and mass manufacturing of traps, lures and IPM tools in quantities of hundreds of thousands and more.



Importantly, we consider ourselves as first and foremost IPM practitioners and promoters. What does this mean for our customers? It means that we collaborate closely with our customers to test our solutions in real world field conditions, and provide the necessary entomological, IPM, and multi-disciplinary perspective to the development and continuous improvement of effective, economical, and environmentally friendly IPM solutions.”

Dr. Agenor Mafra-Neto
President and CEO
ISCA Technologies, Inc.



**Your one stop source for environmentally friendly,
integrated pest management tools and solutions.**