

# Products

## **Solid Dose Calibrator for Karl Fischer Titration**

Facet Analytical Services and Technology, LLC (FAST) is introducing the future of volumetric Karl Fischer titrations with a calibration standard in solid dosage form. This novel standard by its form and composition reduces variability introduced by analyst technique and increases throughput. Fastrate™ tablets can be formulated to customer specifications for water content and packaged in diverse presentations. Unit dose packaging preserves sample integrity and eliminates cumbersome use of a syringe or weigh boat during dispense. Instrument calibration is simplified and more repeatable because transfer time and exposure of vessel contents to foreign moisture are reduced. Fastrate can be used as a check standard throughout a run and facilitates complete automation of the measurement since the delivery mechanism is the same for both standard and sample. For more information, visit [www.facetllc.com](http://www.facetllc.com).

## **Dual-species Cage**

The Dual-species Cage is a multi-purpose cage for the Culex® Automated Pharmacology System (APS) or Return® movement-responsive system, developed in response to customers who require an alternative solid-bottom cage floor. Until now, the two cage styles available for Culex and Return were the grid-bottomed metabolic cage designed to collect urine and feces, and the round-bottomed bowl cage designed with sloping sides to minimize contact with brain implants. The bowl cage permitted use of bedding, but did not have food bins. The Dual-species Cage retains the useful features of the metabolic cage such as the food bin, water tube, hinged door and cage lid, while adding a removable solid bottom floor which can contain small amounts of bedding. Hence, there are three options:



- a grid floor for rats (left)
- a solid floor for rats, with or without bedding (center)
- a solid floor for mice, with or without bedding (right)

(Note the higher position of the solid bottom floor.) Please visit [culex.net](http://culex.net) (What's New) for more information or phone BASi at 800.845.4246.

## **Mouse Catheters**

Don't waste another drop of blood. Take blood samples from mice automatically using your Culex automated pharmacology system.

- It's a smaller catheter for easy vessel cannulation surgeries in mice by your in-house surgeons.
- Easily configures to Culex automated blood sampler and Empis automated dosing system.
- Same reputable materials as the popular BASi rat catheters.
- Precise blood volume sampling every time with pre-calculated lengths and fittings.
- No waste of precious mouse blood during sampling regimen.

Want someone else to do your surgeries? Ask your lab animal supplier for Culex-ready animals. They use BASi catheters!

## **Waste Bottle Bracket**

Securely attaches the waste container to your Culex cart. This new accessory is now being shipped with all Culex units. It is also available for purchase by users who bought their Culex systems before the bracket was standard.

A waste line descends from each Culex fraction collector. If you are not using the Culex waste containment system to capture blood or condensates, you must flush the waste material out of the fraction collector at the end of every study. That waste ends up in whatever container you place under the cart, and it may end up on the floor if you move the cart before removing the container.

This new bracket provides a way to securely attach the waste container to the Culex cart, so the waste container moves along with the cart. The bracket will hold up to a 1-gallon container, such as a milk jug, but is adjustable for smaller containers, too, and it fits on all Culex carts. Place one on each side of the cart to serve the fraction collectors on both sides.

## **Portal Vein Catheter for Rats**

- Designed for ileocolic venotomy; length allows for correct positioning in portal vein.
- Use this catheter with confidence for your automated rat portal vein sampling or dosing. Smaller diameter for easier insertion.
- Easily configures to Culex automated pharmacology system for automated sampling.
- Catheters come pre-sterilized, with needle hub, ready to insert.

## Products, continued

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### **BASi GI Catheters**—Oral dosing without handling the rat!

- Deliver your oral dose without picking up a single rat.
- Designed to fit syringe and hub dosing of compound directly into the stomach or duodenum—inside or outside the Ratum cage system.
- OR use the Empis automated dosing system to program your oral dose for delivery when you're not there.
- Aids in reducing stress (for technician and animal) and minimizes HPA axis factors to provide improved bioavailability data!
- Manage your PK crossover design study using the same rat to eliminate inter-animal variability.
- Utilize IV dosing, oral dosing, and blood sampling, all for the same study!

### **EMPIS Automated Dosing System**

- Automate and time your dosing.
- Works hand-in-hand with your Culex automated blood sampler.
- Use with BASi IV jugular and/or femoral catheters.
- AND new BASi GI catheters!
- Bolus dosing and long-term infusions, or both.
- Refillable syringe feature allows loading dose and follow-up maintenance dosing for extended periods.
- Dose two compounds, one immediately following the other.
- Tend feature keeps IV catheters clot-free.
- Aids in reducing stress (for technician and animal) and minimizes HPA axis factors to provide you with improved bioavailability data!
- Manage your PK crossover design study using the same rat to eliminate inter-animal variability.
- Utilize automated IV dosing, oral dosing, and blood sampling, all for the same study!

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## Biomarker Discovery? Don't miss the Peptides!

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**Characterisation of proteases and protease inhibitors**

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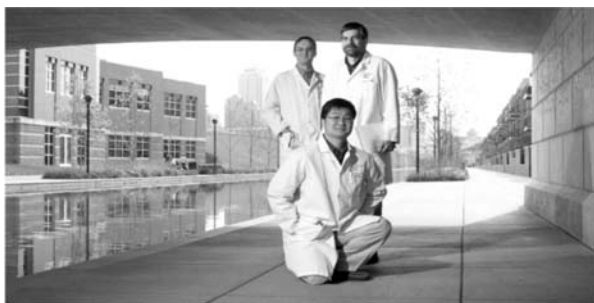
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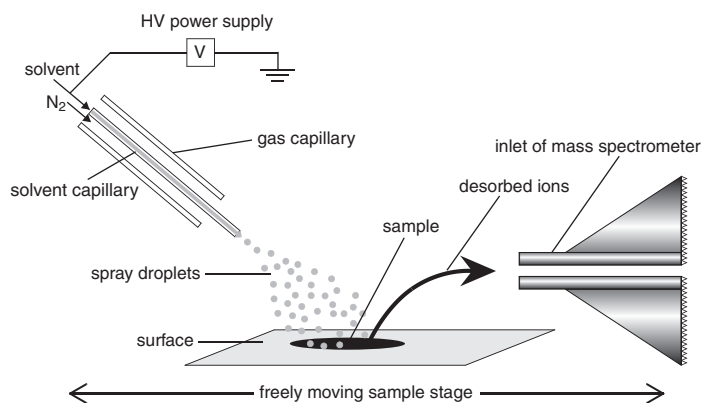
# Omni Spray™ Ion Sources

## What are Omni Spray™ Ion Sources?

Omni Spray™ Ion Sources are a series of new revolutionary ionization sources incorporating the DESI technology (Desorption Electrospray Ionization) that was invented in the laboratory of Dr. R. Graham Cooks, Purdue University

## What is the DESI Technology?

The DESI technology is a simple, sensitive, gentle, and versatile ionization method that allows for the direct sampling of surfaces without any sample preparation and under ambient temperature and pressure conditions. This patent pending technology was first disclosed in Science, Vol. 306, #5695, pp. 471-473, October 2004.



## How versatile are Omni Spray™ Ion Sources?

Omni Spray™ Ion Sources have been demonstrated in applications that range from the detection of explosives to proteomics. Therefore, with a single ion source scientists will be able to analyze both large and small molecules as well as polar and non-polar molecules from a variety of surfaces. Omni Spray™ Ion Sources will ultimately be available to interface with most commercially available mass spectrometers.

## What is included in the purchase of an Omni Spray™ Ion Source?

Omni Spray™ Ion Sources will include the following list of components to enable users to begin analyzing with a compatible mass spectrometer

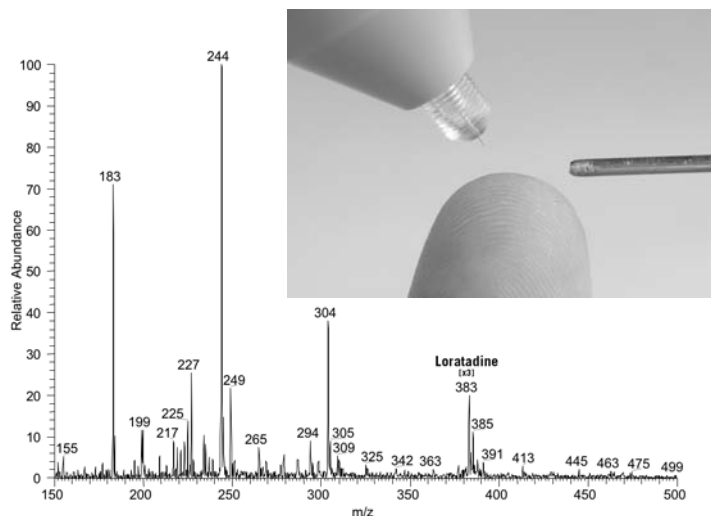
- DESI technology source with rotational and X-Y-Z positioner, and a sample platform with X-Y-Z positioner
- High Voltage connector cable
- 2 CCD cameras with magnifying optics (mag x60)
- Adjustable camera mounts
- 2 CCTV monitors, industrial quality, B/W
- Integrated light source with 2 replacement bulbs
- AC/DC adapter for cameras & light source
- BNC cables & cable ties for CCTV system

## What are the advantages of using Omni Spray™ Ion Sources?

Omni Spray™ Ion Sources are simple to operate. They eliminate the need for complex and time consuming sample preparation allowing for instantaneous results. In addition to the traditional surfaces used in a laboratory Omni Spray™ Ion Sources enable scientists to directly interrogate sensitive materials such as plant and animal tissues, even a human finger, in their natural form. The sensitive and gentle ionization method allows Omni Spray™ Ion Sources to ionize intact proteins and non-covalent protein complexes, as well as small molecules, all at trace levels. The spray solvent, and other variables, can be easily changed or optimized to increase selectivity.

## Drug Identification on Human Skin

Testing of human skin 1 hour after the ingestion of 40 mg Claritin®



- 5 Fused silica emitters
- 5 Stainless steel emitters
- Samples of disposable surfaces
- DESI source installation & operating manual

### Items required but not included.

- Compatible mass spectrometer
- Pressure regulated gas source
- Spray solvents

## Where can one learn more information about the Omni Spray™ Ion Sources?

Application sheets, product details, pricing and ordering information can be obtained by contacting Prosofia directly.

