



Lomir

BIOMEDICAL INC.

DESIGN. INTEGRITY. RELIABILITY.

www.lomir.com



We are driven by an
**absolute commitment to
animal welfare and
continued research.**

JACKETS

Attention to detail, design and materials put this range of clothing ahead; in comfort for the subjects, and versatility for the procedures.

Lomir's inventory of Large Animal Jackets has been designed and constructed to meet the requirements of a wide variety of subjects and activities. However, for laboratories which have unique requirements both in the type of subject and nature of the procedure, Lomir's design group works in close collaboration with investigators to develop custom jackets and undershirts.

Innovative design is a Lomir hallmark and down to the smallest detail our animal jackets fulfill the many demands placed on today's investigators. We can work with all animal species, customize your jackets and provide fast delivery.



LARGE ANIMALS JACKETS



Innovative design is a Lomir hallmark and down to the smallest detail our Large Animal Jackets fulfill all the demands placed on today's investigators. A single jacket will typically incorporate many materials, special features and fabrication methods which combine to increase comfort for the subject, as well as ease of use for the handler. The models shown here are just a small selection from an extensive range which includes jackets for many other species.



PRIMATES



SWINE



CANINES

Lomir Biomedical's inventory of Large Animal Jackets has been designed and constructed to meet the requirements of a wide variety of subjects and activities. But there are still many procedures which have unique requirements both in the type of subject and nature of procedure.

In cases such as these, Lomir Biomedical's design group works in close collaboration with investigators to develop custom jackets specifically matched to the subject and procedure.



All the necessary accessories

For procedures requiring ambulatory equipment, Lomir provides pouches in a range of materials and sizes for attachment to Lomir jackets. Also available are anchoring patches for tethering systems and inserts for dermal procedures.



Typical attention to detail

A double stitched strip of elasticized material connects two layers of nylon mesh for comfort, flexibility and durability.

QUALITY MADE, CUSTOM FABRICATIONS

Lomir is internationally renowned for its laboratory animal jackets, years of design and manufacturing experience makes Lomir your choice for custom made jackets.

CUSTOM JACKETS

From a simple special size pocket to a completely unique design we work with you to develop the best jacket for both your animals and scientific objectives. All of this in a timely manner and to the high quality customers expect from Lomir. The possibilities are endless.

ACCESSORIES

Lomir provides you with an endless choice of accessories such as; pockets to hold all manner of delicate equipment, anchoring points for tethering, attachments for restraint systems, clips for collars or other attachments, velcro, snaps and other fasteners. Jackets and accessories become even more specialized when we incorporate an innovative fabric into the design.

TELEMETRY JACKETS

Lomir manufactures jackets and undershirts for various external telemetry

systems, as these continue to evolve so do the jackets and undershirts.

Visit our website Lomir.com and check the telemetry section to see the latest models and accessories for specific telemetry systems.

SPECIES

Custom jackets are manufactured for every animal species used in today's laboratories including;

rodents canines, non-human primates, swine ruminants, rabbits, cats and many more.

You can order by weight, body measurements and study requirements.

Call us to verify the information we need to start your jackets

CUSTOM UNDERSHIRTS

Lomir identified a need for a range of undershirts for laboratory animals as scientific procedures become much more refined.

Undershirts are an effective means of securing electrodes, connectors, Fentanyl patches or any piece that needs to be kept in contact with the skin.

Customers have found Lomir undershirts to be an effective alternative to bandaging and wrapping animals, either before placing an outer jacket or even on their own.

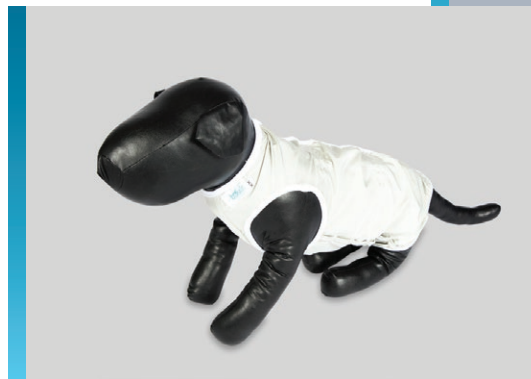


Undershirts are made from smooth spandex fabric to provide a tight fitting garment which reduces rubbing and chafing. Models close and adjust with either Velcro fasteners or plastic zippers.

Lomir is known for its capabilities in custom design and manufacturing and this applies to the undergarments. To explore the possibilities please contact us to discuss your requirements.



As with all Lomir products our undershirts are available for all large animals with a complete range of sizes, customers have the choice of color coding to distinguish sizes or treatment groups.



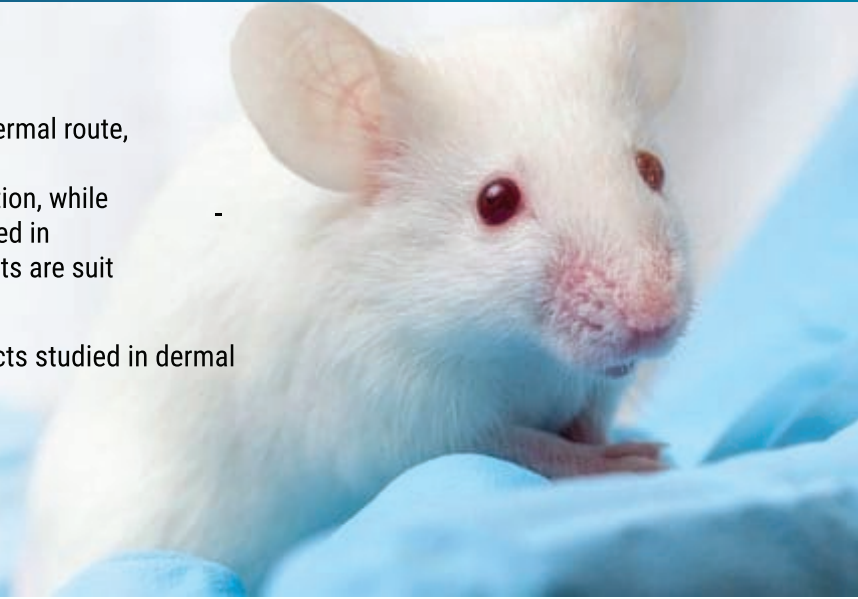
Lomir, in collaboration with manufacturers of certain external telemetry systems have developed undershirts as well as outer jackets unique to respective systems.

As the technology and equipment for telemetry evolves so rapidly we suggest you check our website and click on the telemetry section to learn about the latest jacket and undershirt combinations.

JACKETS & INSERTS FOR DERMAL APPLICATIONS

Designed for studies where test articles are applied by the dermal route, this system provides a non-occlusive covering for the application site, reducing the possibility of oral ingestion, while allowing in-life investigations to be carried out with ease. Used in regulatory toxicology studies, these dermal inserts and jackets are suitable for many products that are administered by this route.

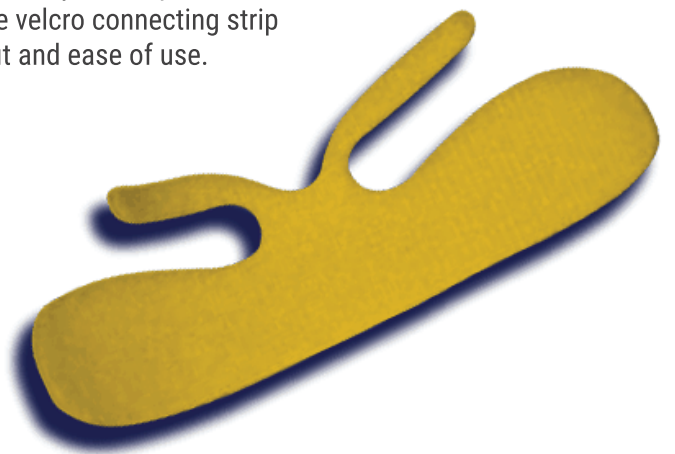
Stock and custom dermal jackets are available for all subjects studied in dermal procedures.



SPECIES

Lomir's animal jackets and inserts are manufactured for a range of species such as rabbits, guinea pigs and rodents, with custom models available for dogs and swine.

Quality materials and construction ensure durability and efficiency over repeated usage. Adjustable velcro connecting strip provides proper fit and ease of use.

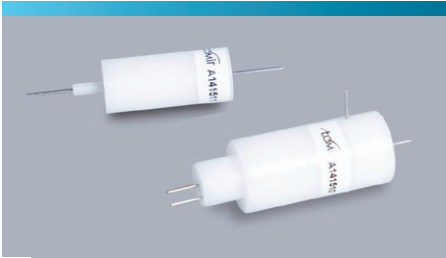


SMALL ANIMALS

Lomir's integrated small animal & rodent infusion systems provide maximum procedural flexibility and precision.

Pre-sterilization is available.

INFUSION SETS INCLUDE:



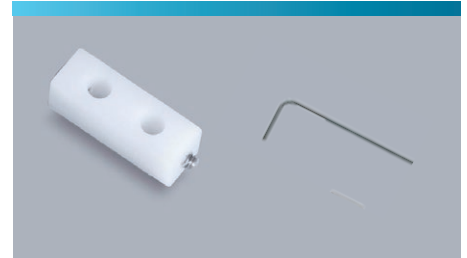
SWIVELS

High impact thermoplastic, precision stainless steel hypodermic tubing, and Teflon seals. Single or double fluid channels in a range of needle sizes.



TAIL CUFFS

Constructed of stainless steel with self-threading tether attachment point. Used as an alternative to the Rodent Jacket.



CONNECTORS

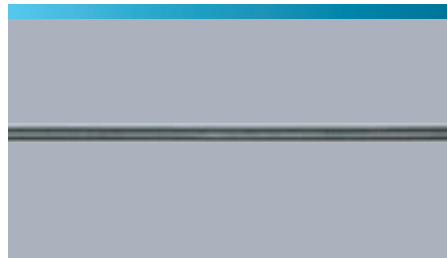
These provide a secure attachment between Swivels and Tethers ensuring an ease of movement through 360°



JACKETS

Made of double layers of Lycra/Spandex fabric with Velcro fasteners for adjustment and secure fit.

Available in 5 standard sizes, (X-small, Small, Medium, Large and X-large), order by weight range of your animals.



TETHERS

Manufactured from a strong but light stainless steel spring, in three standard lengths: 12" (30cm), 18" (46cm) and 24" (61cm) for single or multiple channel use. The standard anchor is a molded button with a sewn Velcro tab for adjustable fit when using the jackets.



RETAINERS

Stainless steel and high-impact plastic construction. Available in two designs selected by the type of cage in use.

May be purchased complete or as individual components



LARGE ANIMALS

Rugged, precise and versatile infusion systems, designed and fabricated to operate accurately and meet criteria for procedures involving larger animal subjects; rabbits, dogs, primates, swine and farm animals.



SWIVELS

Single-fluid channel models made from high-impact plastic or stainless steel in standard gauges (16-20).

Double and triple channel models for simultaneous applications are fabricated from high-impact plastic with 17 to 20 gauge channels.

All large animal swivels are supplied with a "C" clamp and designed for repeated use.



TETHERS

Constructed from flexible interlocking stainless steel. Machined aluminum end pieces are secured to swivels and end-plates by two set screws.

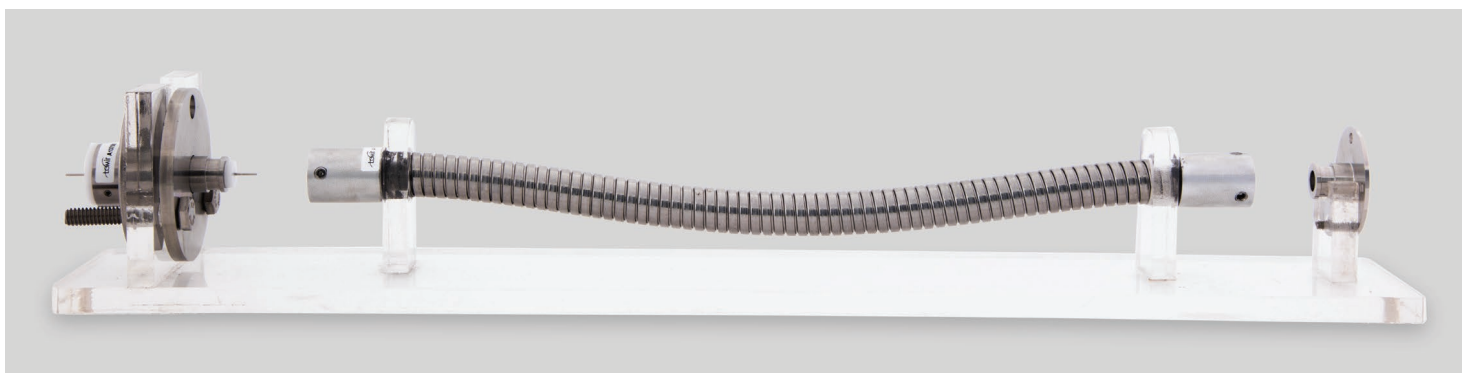
Allows for ease of movement by the subject while eliminating interference and damage to the catheter.

Tethers are available in three regular diameters. Standard lengths range from two to four feet, with other lengths available by special order.



END-PLATES

Machined from a single piece of stainless steel for a durable and reliable connection to a reinforced anchor point on the jacket.



Animal Restraint

MOBILE RESTRAINT UNIT

Rugged, versatile and humane immobilization of large animals for veterinary and laboratory procedures.



A stable immobile and comfortable subject is a key component of any investigation or procedure involving large animals. The innovative Mobile Restraint Unit embodies the most efficient incorporation of all the necessary features. Combined with quality materials and Lomir's attention to detail and workmanship, this device is unique in providing humane immobilization for the animal and efficient, safe, working platforms for the handler. Special Requirements? While our inventory of frames and slings will answer the needs of most customers, Lomir is fully equipped to fulfill orders requiring the fabrication of custom made units for special situations or tasks.

FOR MORE INFORMATION, OR TO ORDER PLEASE VISIT US ONLINE AT WWW.LOMIR.COM OR CALL 1-877-425-3604.

FRAME CONSTRUCTION

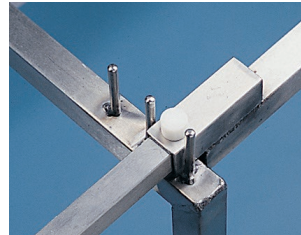
- Deep "V" opening in frame for unimpeded access to the head of the animal.
- Low cross members and deep opening for minimum lifting height and easier positioning of animal.
- Sling Support bar extenders for lifting. Removable to facilitate access to the animal during procedure and prevent snagging during movement.
- Available in a range of sizes. Constructed from precision welded 1" square tube stainless steel stock for lightness and strength.



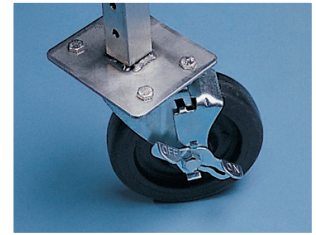
Self-locking, quick release cleats for limb ropes at each corner.



Lower sling support bar brackets for easier access.



Locator pins on all corners to adjust sling support bars



Corner posts on heavy duty castors with ball-bearing pivots, two with foot activated brakes.

SLING CONSTRUCTION

- Basic construction of robust, washable canvas type material.
- Wide reinforced side tubes for easy insertion and removal of adjustable side support bars.
- All leg and waste apertures edged in cotton jersey for additional comfort.
- Nylon webbing sewn in at key points throughout for additional strength.



ANIMAL RESTRAINT

Exclusively available from Lomir Biomedical, this newest innovation in comfortable restraint is collapsible and lightweight. It can be quickly & easily folded up for trouble-free transport or storage in facilities with limited space or mobile veterinarians.

For additional information you have two choices; regarding proper use, or hands-on training customized for personnel and facility needs, please visit www.panepinto.com, to place an order or discuss availability of custom sling sizes please visit www.lomir.com or call 1-877-425-3604.

PORTABLE PANEPINTO SLING

Humane, user-friendly, portable restraint developed in partnership with Panepinto Associates for your micro/minipigs, dogs, goats, lambs and other small to medium sized animals.

Truly portable the complete sling ships in a carton 40" x 10" x 6" weighing 20 lbs so it can be shipped inexpensively using your preferred courier service.

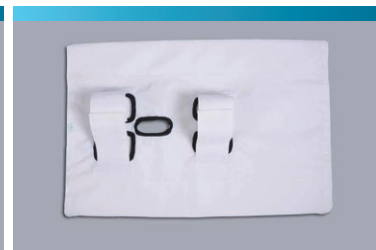
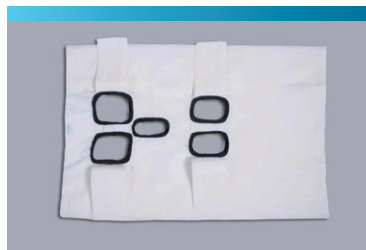
The portable Panepinto sling is supplied with instructions for assembly, storage and handling.

Deep V shaped openings at the front and back for unimpeded access to the animal allowing of easy sampling or instrumentation. Set up and dismantling is simple requiring no tools. Clevis pins lock the frame in place, for storage either fold closed and hang on hooks or use the storage bag, included with your purchase.

To maintain a light weight with maximum strength the frame is constructed from square tubular stainless steel. The sling is manufactured from a robust coated canvas fabric. The sling is machine washable. All openings on the sling are trimmed with a cotton jersey fabric for comfort. Velcro straps closing over the back provide for quick and secure restraint while maintaining adjustable fit for individual animals.



As with all Lomir products we manufacture the most complete range of sizes selected according to the type and weight range of your animals, customers always have the option of custom-made covers these options can even extend to color-coding. Contact us to discuss your individual requirements.



RODENT RESTRAINT

In today's laboratories consideration of all aspects of an animals' well-being and welfare contribute to the quality of scientific results. Lomir is pleased to present our Rodent Sling, a versatile restraining device suitable for a wide range of applications.

RODENT RESTRAINT SLING

Frame

Polypropylene base with supports made from stainless steel, one inch thick base material provides a robust support that does not move. Stainless supports and connectors held with convenient thumbs screws allow for height adjustments.

The frame is easily cleaned and dismantles when not in use.



RODENT RESTRAINT COVER

Restrains

Full body restraint is provided with the choice of either a sling suit or sling cover. Both restrainers allow for access to all limbs and the head and tail, all close with Velcro fasteners allowing for a quick and secure restraint and an adjustable fit for individual animals.

Sling suits are sold in five sizes according to the weight range of the animals.

The rodent sling cover is available in a single size for rats up to 500g. Custom sizes are available on request.



Slings can be used to securely restrain rodents during many procedures. Choice of restraint in many sizes and range of adjustment make the rodent sling a valuable asset to any laboratory setting. Other small animal species may also be restrained using the same frame with suits and slings available for mice and guinea pigs.

COLLARS

Lomir collars are designed and manufactured to reduce or eliminate many of the factors which can compromise investigations. In protecting sensitive equipment and reducing discomfort and stress levels for the subjects, this comprehensive range helps to protect the integrity of a wide variety of procedures on all laboratory animal species. A large range of standard sizes are available with other sizes, for special needs, made to order.



ELIZABETHAN

Prevent animals from self grooming, and protect surgical or treatment sites.

All collars are manufactured from a low density polyethylene and close with ample Velcro fasteners, providing adjustable and secure fit for individual animals. Neck openings are bound with cotton jersey for comfort.



Available in white or black in a comprehensive range of sizes with custom models made to order.



CERVICAL

Offer an alternative to Elizabethan collars, allowing the animal unrestricted vision.



PILLOW

Are designed for use in a wide range of applications:

- May be used in combination with an infusion jacket.
- For protection of devices such as infusion pumps.
- For protection in post surgical or treatment situations.

Made from durable, washable canvas and available with optional fasteners for jacket or harness attachment. A special feature is the removable foam pillow insert.



THE SNUGGLE FAMILY

Introducing the complete "Snuggle Family" the ultimate in stress-free immobilization and versatility for procedures involving guinea pigs, rodents or rabbit subjects.

Blood Collection, Vaginal Samples, Bolus Injection, Veterinary Exams, Gavage, Transport and more.

HANDLE WITH CARE.

Small animals are prone to stress and require extra care in handling. Mechanical restraints frequently require the involvement of two personnel: one to restrain and one to perform. The resulting stress and discomfort for the subject can often jeopardize the efficiency of the procedure.

The "Snuggle Family" uses the principle of a cocoon rather than a rigid structure for immobilization. The multiple flaps perform two functions: They are adjustable around the subject for effective yet comfortable restraint, and positioned, or left open for access depending on the procedure. Both restraint and procedure can be carried out by one handler.

THE LOMIR DIFFERENCE.

The LOMIR "Snuggle Family" is manufactured from flexible yet extremely durable canvas fabric. The fabric is coated with nylon to facilitate laundering for reuse. Wide flaps with velcro fasteners allow for maximum flexibility, ease of use and adjustment for fit between individual subjects. The "Snuggle Family" is available in different sizes for a complete range of animals including pregnant females.



**SNUGGLE FOR
SMALL ANIMALS**



**SNUGGLE FOR
RABBITS**



**SNUGGLE FOR
RODENTS**

Velcro fasteners allow for maximum flexibility and fit.

Durable, nylon coated canvas fabric.

Sizing Available:

Rabbit - Small, Medium, Large, X-Large

Guinea Pig - Small, Medium, Large, X-Large

Rodent - X-S, Small, Medium, Large, X-Large

SMALL ANIMAL HANDLING

Safe, flexible and comfortable



Lomir launches new superior cut resistant gloves for animal handling. Gloves are suitable for the safe handling of small laboratory animals including rodents. T/FLEX® PLUS gloves are a 13 gauge seamless knit shell; material is Dyneema® engineered fibers plated with Lycra® - Spandex®, Thermax® and the antimicrobial treatment Alphasan® combine to provide a comfortable glove featuring the highest cut resistance. Gloves conform to international safety standards for cut resistance.

T FLEX PLUS HANDLING GLOVES

- HG 013G6 x-small
- HG 013G7 small
- HG 013G8 medium
- HG 013G9 large
- HG 013G10 x-large

Available in five sizes:
x-small through x-large

SMALL PRIMATE HANDLING

safe, durable and comfortable



When handling small animals such as New World primates dexterity coupled with protection is vital for the security of both the subject and handler. Lomir's small primate handling gloves offer a smart solution for protection during long periods of wear.

Manufactured from a soft yet durable goat skin, these gloves are a comfortable fit and lined with knitted Kevlar to provide extra protection and slash resistance.

Goat skin leather, thin yet strong and durable
Lined with Kevlar for slash resistance
Soft and form fitting will not crack or harden after wetting

GOAT SKIN HANDLING GLOVES

with Kevlar lining

- HG 011KS small
- HG 011KM medium
- HG 011KL large
- HG 011KX x-large



Kevlar lining provides
extra protection from
slashing and tearing.

INCREMENTAL ANIMAL HANDLING SYSTEM

A complete integrated protection system for animal handlers and their subjects. To safeguard personnel while handling animals, Lomir manufactures a complete range of handling equipment designed and fabricated for flexibility, comfort and safety during long periods of wear. No other company offers such a range of sizes; Small Medium, Large and X-Large. Available as pairs or singles.

Kevlar® Arm Protectors - Arm protectors made from 100% fine-knit Kevlar® with sewn-in reinforcement. Designed to be worn either on their own or beneath a pair of animal handling gloves.

Kevlar® Arm Protectors - Arm protectors made from 100% fine-knit Kevlar® with sewn-in reinforcement. Designed to be worn either on their own or beneath a pair of animal handling gloves.



Leather Gauntlets - Full fingered, full length gauntlet. Glove section made from 100% cowhide; elbow length cuffs made from split grain cowhide. Ruggedly constructed with internal seams throughout for optimum protection and durability. Kevlar lining for security while maintaining manual dexterity. Available in two cuff lengths



Leather Doublers - For the highest level of protection, a 100% cowhide doubler is available with heavy duty snaps for attachment over the handling gauntlets.

- Two models are available :
- full thumb and index finger closure
 - full thumb, index and three-fingered closure



PRIMATE CAPTURE NETS

Lomir's capture nets are designed to restrain animals while protecting both the subject and the handler.

They are suitable for both new and old world primates.

The net and pole are available in multiple combinations to match the size, weight and strength of the subject.

Replacement nets are also available.

As with all Lomir's products, custom specifications are also undertaken.



The net is a robust, fray-resistant polyester mesh fabric, double sewn and lock stitched for strength and durability. A reinforced channel is sewn in to accommodate a thick braided cord. This can be tightened once the subject has been netted for additional constraint and safety.



Corners of the stainless steel hoop are rounded for additional safety.



Two energy absorbing grips are ergonomically positioned on the handle for security and comfort.

Capture nets are suitable for both new and old world primates .



ENRICHING LIFE



FOR MORE INFORMATION, OR TO ORDER PLEASE VISIT US ONLINE AT WWW.LOMIR.COM OR CALL 1-877-425-3604.

PET® PRODUCTS

In today's laboratories consideration of all aspects of an animals' well-being and welfare contribute to the quality of scientific results. Enrichment techniques add to the overall quality of a given experiment. Devices must provide for natural behaviors, specific to the species in question. In addition to meeting the enrichment criteria products must be safe, hygienic, easy to sanitize or disposable. Lomir has developed and manufactures a range of enrichment products.



#2030
CYNO/MULATTA

A 172 cavity unit 9/16" openings at 35° angles.



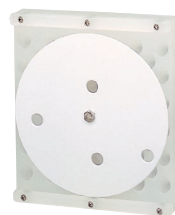
#2028
PAPIO

A 152 cavity unit for 5/8" openings at 35° angles.



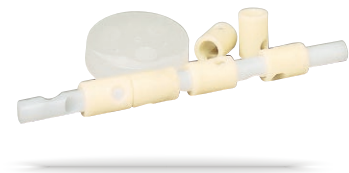
#2027
NEW WORLD

A six cavity unit with 1/2" openings.



#2031
CYNO/MULATTA

A 60 cavity unit 9/16" openings at 35° angles.



#2040
NEW WORLD/CYNO/MULATTA

A 3 post, 360 degrees, multi openings provides increased difficulty.

- Made of highly durable polypropylene with stainless steel fasteners and mounts for long life and trouble-free performance
- Easily washed and sanitized at temperatures up to 180° to eliminate potentially harmful bacteria
- Designed for simple attachment to the outside of a primate enclosure
- Quick assembly and food replenishing

PRIMATE ENRICHMENT

PRIMATE CHOO™

In research involving animals, the well being of a subject is paramount. Every aspect of housing, handling and care that constitutes the animal's physical environment is important.

Primates in the wild spend much of their lives foraging for food. Not so in a laboratory or research facility. To correct this problem and create a more natural environment Lomir introduces the Primate Choo, a chewable device containing food stuffs.

An innovative enrichment device for non-human primates.

1 ½" diameter by 5" long device manufactured from food safe nylon. Material used is FDA and USDA approved and being inert may be sanitized in a cage wash, autoclave or disinfectant solution.

The Primate Choo is designed as a dual purpose forage feeder and chew toy. Six channels are located in the device at different depths and angles, these may be filled with a soft food product making it more interesting and challenging to access the food. Food stuffs not included.

The knurled outer diameter gives a good grip and hand feel. Knurling also gives teeth some purchase when being used as a chew device. Independent certificate of analysis to support GLP compliance.

Primate Choo

An enrichment device for primates containing food stuffs.

Made of an FDA, approved nylon.



RODENT ENRICHMENT

In today's laboratories consideration of all aspects of an animals' well-being and welfare contribute to the quality of scientific results. Enrichment techniques add to the overall quality of a given experiment. Devices must provide for natural behaviors, specific to the species in question. In addition to meeting the enrichment criteria products must be safe, hygienic, easy to sanitize or disposable. Lomir has developed and manufactures a range of enrichment products.

COZEE PAD

FLOOR INSERTS FOR WIRE CAGES

Rodents maintained long-term in wire bottom cages have the potential to develop lesions on their paws. The Lomir Cozee Pad is designed to reduce this problem.

The Cozee Pad is a dual purpose device. When placed on the floor inside the cage provides a secure location preferred by rodents, while the plastic retains warmth and may also be chewed by the animal.

Manufactured from polypropylene sheet that is FDA and USDA approved, making it safe to ingest. Edges of the floor are rounded for safety and may be sanitized in either a cage wash or an autoclave.

In addition to providing a resting place, the Cozee Pad is safe to ingest and doubles as a chew device allowing the animal hours of natural gnawing activity which can reduce the need for teeth clipping.

The natural insulating properties of polypropylene mean that the floor is an enhanced location for the animal, in particular after procedures such as anesthesia or surgery where maintenance of body temperature is important. Cozee Pad can also be treated as a disposable item.



GNAW PUCKS

CHEWABLE PUCKS FOR RATS AND MICE

Rodent Gnaw Pucks are available in two sizes for both rats and mice. Manufactured from a solid nylon material that is FDA and USDA approved, making it safe to ingest.

The knurled edge of the Gnaw Pucks gives the animal a slightly rough edge to gnaw upon.

The rat and mouse sizes allow for extended periods of gnawing and chewing, reducing the requirement for teeth clipping. Nylon is a highly inert material; pucks may be sanitized in a cage wash, autoclave or chemical solution.

Independent certificate of analysis to support GLP compliance.



Knurled edge gives the animal a slightly rough edge to gnaw upon.

100% ASPEN ENRICHMENT PRODUCTS

Aspen is a hard wood with short dense fibers that do not splinter;

Aspen is known not to produce any volatile compounds making it an ideal choice for animal bedding and enrichment products.

Wood is harvested in the depths of a real northern winter when there is no sap produced, further reducing any potential for volatile compounds, and is then kiln dried for at least 3 weeks removing any other moisture.

We run an independent analysis on the wood to demonstrate lack of contaminants, and to support its use under GLP conditions a Certificate of Analysis is available for all Aspen enrichment products.



ASPEN CHEW STICK

AC S01	Small	$\frac{1}{2}$ x $\frac{1}{2}$ x 2" (900 per box)
AC S02	Medium	$\frac{3}{4}$ x $\frac{3}{4}$ x 3 $\frac{1}{2}$ " (270 per box)
AC S03	Large	$1\frac{3}{8}$ x $1\frac{3}{8}$ x 2 $\frac{1}{2}$ " (100 per box)
AC S04	X-Large	2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x 4" (30 per box)



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