



# LAMPIRE

BIOLOGICAL LABORATORIES



## LAMPIRE

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### **Goat anti-Mouse IgG**

*Affinity Purified*

**Cat #: 7455507**

**Lot #: 20B20417**

**Conc: 10 mg/mL**

**Vol: 100 mL**

**DOM: 17FEB2020**

**Store: 2-8°C**

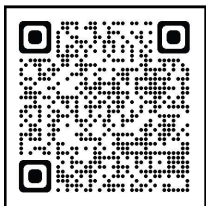
***For Research Use Only***

**[www.lampire.com](http://www.lampire.com)**

(215) 795-2838 | PO BOX 270, Pipersville PA 18947

## **SECONDARIES**

**AFFINITY PURIFIED & ANTISERUM**



# SECONDARIES

## AFFINITY PURIFIED & ANTISERUM

LAMPIRE is a company that specializes in the development and manufacturing of a diverse range of high-quality secondary antibodies. They have been in the industry since 1979 and have accumulated extensive expertise in this field.

### Key features of LAMPIRE's secondary antibodies:

**Customizable specifications:** LAMPIRE's experienced technicians can purify the antibodies according to custom specifications to suit the unique needs of their customers.

**Competitive pricing:** Despite offering high-quality products, LAMPIRE aims to maintain competitive prices for their secondary antibodies.

**Purity and specificity:** LAMPIRE's secondary antibodies are known for their high purity and specificity, ensuring reliable and accurate results in various research applications.

**Available in various sizes:** Whether you need small research quantities or require bulk production, LAMPIRE offers secondary antibodies to cater to different volume requirements.

**Standard formulation:** The purified products and reagents are provided at a concentration of 10 mg/ml in phosphate-buffered saline (PBS) with sodium azide, unless other specifications are requested.

**Custom formulations:** LAMPIRE is flexible in providing lyophilization (freeze-drying) and other custom formulations upon request, allowing customers to choose the most suitable format for their experiments.

**Shipping information:** Products are typically shipped refrigerated in liquid form, but they can also be shipped frozen when required. Customers may incur additional charges for dry ice and custom formulations, as necessary.

For further details on their product offerings or any specific inquiries, customers are encouraged to refer to LAMPIRE's product listing or get in touch with their Customer Service team for more information.



LAMPIRE is the leader of In-Vivo research and products. We pride ourselves on going above and beyond the industry standard.

We are AALAC, OLAW and ISO 13485:2016 certified.

The health and well-being of our animals has been, and always will be our top priority.

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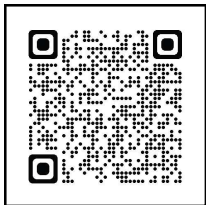


**LAMPIRE**  
BIOLOGICAL LABORATORIES



**MOUSE IGG**

**AFFINITY PURIFIED**



# MOUSE IGG

## AFFINITY PURIFIED

LAMPIRE's Mouse IgG, purified with utmost precision by our highly trained technicians at our State-of-the-Art Bioprocessing facility located in Pennsylvania. We take great pride in our commitment to delivering excellence, starting from the careful selection of quality approved raw materials, which undergo rigorous testing to ensure the production of the highest quality end product. With our in-house manufacturing and testing capabilities, you can trust in the consistency of each batch, all offered at an affordable price, making top-tier Mouse IgG accessible to researchers and professionals alike, without compromising on quality.

At LAMPIRE, we recognize the importance of meeting specific research needs. To cater to your unique requirements, we analyze batches to determine the isotype distribution (IgG1, IgG2a, IgG2b, and IgG3) that best suits your research and experimental goals. Whether you need a single isotype or a combination, we've got you covered, providing tailored solutions to elevate your research to the next level.

Our Mouse IgG batches are available in both research and bulk volumes, providing flexibility to match the scale of your project. Whether you're conducting preliminary experiments or large-scale production, you can rely on LAMPIRE's Mouse IgG products to consistently deliver exceptional performance.

With LAMPIRE, you can trust that our reach extends far beyond the borders of Pennsylvania. Our products ship to the EU and various destinations worldwide, ensuring researchers and professionals across the globe can benefit from the quality and reliability of our Mouse IgG products.

We understand that every research project is unique, and that's why LAMPIRE offers customization options to meet your specialized needs. From customized buffers to concentrations and bottling, we go the extra mile to provide you with the perfect fit for your research requirements. Additionally, we offer custom safety stock to protect you from unforeseen disruptions, ensuring your projects stay on track and progress without any hindrances.

Join the LAMPIRE family today and discover the advantages of working with our premium Mouse IgG products. With our standing order service, you can rely on a regular supply of materials for your large projects without any hassle. Moreover, as an expression of our gratitude for your continued support, LAMPIRE offers attractive discounts for large-scale production needs, making your investments even more rewarding. Trust LAMPIRE for exceptional Mouse IgG products that empower your research, assays, and immunoassays with unmatched quality and reliability.



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**LAMPIRE**  
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**RABBIT**

**CUSTOM ANTIBODY SERVICES**



# RABBIT

## CUSTOM ANTIBODY SERVICES

At LAMPIRE, we are proud to offer custom Rabbit polyclonal antibody services. With our extensive experience and expertise, we can provide high-quality antibodies tailored to your specific research needs. Utilizing rabbits as the animal model allows us to achieve a robust immune response and high specificity, ensuring the generation of reliable and effective antibodies. Whether you require antibodies against haptens, human antigens, or other immunogens, our well-developed protocols guarantee the production of antibodies with superior affinity. Our team of scientific experts is ready to assist you throughout the process, delivering personalized solutions and timelines to ensure the success of your custom Rabbit polyclonal antibody projects.

**Strong Immune Response:** Rabbits typically produce a robust immune response to a wide variety of antigens, which is crucial for generating a large pool of antibodies specific to the target antigen. LAMPIRE's extensive experience with rabbits as an animal model allows them to optimize the immunization process for efficient antibody production.

**Versatility:** Rabbits are capable of generating antibodies against various types of antigens, including haptens and human antigens. This versatility makes them suitable for diverse research applications, accommodating a wide range of custom antibody requests.

**Antibody Diversity:** Rabbits have a diverse antibody repertoire, leading to a wide range of specificities and affinities in the generated antibodies. This diversity can be advantageous when targeting different epitopes on the antigen of interest, allowing LAMPIRE to select high-affinity antibodies for your project.

**Large Serum Yield:** Rabbits provide a larger volume of blood compared to smaller animals like mice, resulting in a higher yield of antibodies. This can be beneficial for projects requiring larger quantities of antibodies for downstream applications.

**Phylogenetic Distance:** Rabbits are phylogenetically distant from common laboratory animals such as mice and rats. This distance can lead to stronger immune responses when using rabbit-derived antibodies in experiments involving other species, increasing the potential utility of the generated antibodies.

**Established Protocols:** LAMPIRE has extensive experience with rabbits as an animal model for antibody production. Over the years, they have developed and documented well-optimized protocols for rabbit immunization and antibody purification, ensuring the production of high-quality custom polyclonal antibodies.

Without cost or obligation, LAMPIRE will schedule a technical call with our scientific staff to discuss your research goals and specific starting material as well as your animal model. If a custom protocol is recommended, we provide you with timelines and a custom quote. To begin your discussion, please contact us today by email at [projman@lampire.com](mailto:projman@lampire.com) or call 215-795-2838



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# LAMPIRE

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## LLAMA

**CUSTOM ANTIBODY SERVICES**





# LLAMA

## CUSTOM ANTIBODY SERVICES

LAMPIRE takes great pride in being one of the pioneering institutions to offer llama polyclonal antibodies for custom antibody projects. Our early recognition of the unique potential of llama-derived antibodies has positioned us at the forefront of leveraging the exceptional benefits of llamas in antibody research and production. With extensive experience and expertise in working with llamas, we have honed our custom polyclonal antibody service to deliver outstanding results for our clients.

The foundation of our success lies in our optimized immunization protocols and purification methods developed over the years. We ensure the generation of high-quality llama polyclonal antibodies that meet the specific requirements of each project. By choosing LAMPIRE, you gain access to our comprehensive technical support and the expertise of our skilled team, who work closely with you to design immunization protocols tailored to your research objectives.

Llamas offer several compelling advantages for custom polyclonal antibody projects. Notably, llama polyclonal antibodies possess unique heavy chain antibodies (HCAbs) that lack a light chain component, making them smaller and more robust. These antibodies exhibit enhanced stability, longer shelf life, and higher tolerance to extreme conditions, ensuring consistent and reliable performance in various applications.

Moreover, llama immune systems display a remarkable ability to recognize and bind to a diverse range of antigens, resulting in the production of polyclonal antibodies that target multiple epitopes on a single antigen. Their capacity to bind to challenging epitopes, including hidden or conformationally sensitive regions, makes llama polyclonal antibodies valuable tools for investigating complex research targets.

Furthermore, the high specificity and affinity of llama polyclonal antibodies enable accurate and reliable detection, quantification, and purification of the target molecule. Additionally, llama-based antibody production is ethical and sustainable, as it allows us to generate substantial amounts of polyclonal antibodies from a single animal, minimizing the need for extensive animal use while maintaining high-quality antibody yield.

With our streamlined processes and optimized workflows, we aim to provide rapid delivery of high-quality custom polyclonal antibodies, accelerating your research progress. The versatility of llama polyclonal antibodies allows for their use in a wide range of research techniques, expanding the scope of your investigations.

In summary, partnering with LAMPIRE for your custom polyclonal antibody project empowers you with our expertise, dedication, and cutting-edge technology, making the most of the exceptional benefits offered by llama-derived antibodies. Our commitment to delivering top-notch antibodies and providing comprehensive technical support ensures that your research goals are met with precision and efficiency. Experience the advantages of llama polyclonal antibodies in your research by collaborating with LAMPIRE today. Contact us to embark on your next groundbreaking project with confidence.



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**LAMPIRE**  
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**CHICKEN**

***CUSTOM ANTIBODY SERVICES***





# CHICKEN

## CUSTOM ANTIBODY SERVICES

LAMPIRE's custom polyclonal antibody services utilize chickens as the animal model, presenting numerous advantages for researchers in need of high-quality antibodies. Chickens can produce large quantities of antibodies, mainly IgY, equivalent to mammalian IgG antibodies, making them ideal for projects requiring substantial antibody yields. Additionally, the non-invasive and humane method used for antibody isolation from egg yolks ensures ethical treatment of the animals during the process.

Furthermore, chickens are highly effective in generating antibodies against conserved mammalian and human protein antigens, allowing researchers to study targets with similarities across different species. This offers valuable insights into evolutionary relationships and facilitates functional studies. Moreover, chickens' rapid immune responses result in cost-effective solutions and quick turnaround times, meeting the demands of researchers who require antibodies promptly for their experiments.

LAMPIRE's expertise in custom antibody production spans over four decades, providing researchers with assurance in the quality and efficiency of their services. Their scientific staff possesses specialized knowledge in working with chicken-based models, enhancing the antibody production process further. Researchers benefit from a range of customization options, enabling them to tailor the services to meet their specific research needs. LAMPIRE offers custom protocols and timelines, recognizing the uniqueness of each research project, and providing personalized recommendations and quotes during free technical calls with their scientific staff.

Finally, the antibodies produced through LAMPIRE's custom polyclonal antibody services find applications in diverse research areas, including Western blotting, immunohistochemistry (IHC), enzyme-linked immunosorbent assay (ELISA), and more. This versatility makes them valuable tools for a wide range of research studies. In conclusion, LAMPIRE's custom polyclonal antibody services using chickens as the animal model offer a humane, cost-effective, and efficient solution to obtain high-quality antibodies tailored to researchers' specific needs. Their expertise, coupled with customization options and rapid response times, ensures a seamless and reliable antibody production process for cutting-edge research endeavors.

To initiate the process, LAMPIRE offers a technical call with their scientific staff, which comes with no cost or obligation. During this call, researchers can discuss their research goals, specific starting materials, and the appropriate animal model for their project. If a custom protocol is recommended, LAMPIRE will provide timelines and a custom quote to the researchers.

To start the discussion and learn more about LAMPIRE's services, interested parties can get in touch via email at [projman@lampire.com](mailto:projman@lampire.com) or by calling 215-795-2838.



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**LAMPIRE**  
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**GOAT/ SHEEP**  
**CUSTOM ANTIBODY SERVICES**





# GOAT/ SHEEP

## CUSTOM ANTIBODY SERVICES

At LAMPIRE, we take pride in our long-standing reputation as a leading provider of high-quality custom antibodies since 1977. Our commitment to excellence has made us a trusted partner for researchers and organizations seeking polyclonal antibody production services.

We understand the importance of offering a diverse range of polyclonal antibody options and animal models to cater to various research and production requirements. That's why we often recommend goats and sheep as host species for generating custom antibodies for several compelling reasons.

Firstly, goats and sheep have larger body sizes, allowing them to produce larger volumes of serum. This advantage makes them ideal candidates for projects that demand a substantial amount of antibodies, ensuring researchers have an ample supply for their studies.

Secondly, the immune systems of goats and sheep are incredibly versatile, exhibiting a broad antigen response. This exceptional characteristic enables them to generate antibodies against a wide range of antigens, making them valuable tools for research involving diverse targets.

Furthermore, the antibodies produced in goats and sheep are renowned for their high affinity and specificity for target antigens. This outstanding feature ensures that the antibodies we generate are of exceptional quality and accuracy, thus enhancing the reliability of research outcomes.

In addition to their high affinity, the antibodies produced in goats and sheep are also highly sensitive. This sensitivity is particularly beneficial for researchers working with smaller molecular targets, enabling them to detect even the tiniest antigens or epitopes with precision.

The availability and practicality of working with goats and sheep also make them a popular choice for custom antibody production. As readily accessible animal models, they facilitate smoother project initiation and execution, ultimately leading to faster turnaround times for our clients.

Moreover, the antibodies generated in goats and sheep serve as excellent foundations for secondary antibodies. These secondary antibodies play crucial roles in various immunoassays and research techniques, further extending the utility and value of the antibodies we produce.

To initiate the process, we offer interested researchers a complimentary technical call with our scientific staff. During this call, researchers can openly discuss their research goals, specific starting materials, and other project details. Based on their requirements, we can provide customized protocols, timelines, and quotes tailored to meet their unique needs.

At LAMPIRE, we are passionate about supporting cutting-edge research and delivering top-notch custom antibodies. Researchers looking to explore our services can easily reach out to us via email at [projman@lampire.com](mailto:projman@lampire.com) or by calling 215-795-2838. We are committed to providing exceptional service and ensuring a seamless and successful collaboration with all our valued partners.



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**LAMPIRE**  
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**HYBRIDOMA**  
*DEVELOPMENT*





# HYBRIDOMA DEVELOPMENT

Choosing hybridoma development for antibody production offers several compelling advantages that make it a preferred approach for researchers. Here's why you should consider hybridoma development:

1. **Generation of highly specific antibodies:** Hybridoma technology allows for the generation of monoclonal antibodies, which exhibit exceptional specificity and affinity towards a target antigen. Monoclonal antibodies are produced by a single clone of B cells, ensuring consistency and reproducibility of results.
2. **Unlimited antibody supply:** Once established, hybridoma cell lines can be cultured indefinitely, providing an unlimited supply of monoclonal antibodies. This is especially beneficial for applications requiring a large quantity of consistent antibodies, such as therapeutic or diagnostic purposes.
3. **Wide range of applications:** Monoclonal antibodies derived from hybridoma technology have diverse applications in research, diagnostics, and therapeutics. They can be utilized for immunohistochemistry, Western blotting, ELISA, flow cytometry, and other techniques, enabling a broad range of experimental possibilities.
4. **Enhanced reproducibility and quality control:** Hybridoma technology ensures high reproducibility as monoclonal antibodies are generated from a single clone. This consistency is crucial for experiments that require reliable and standardized results. Additionally, hybridoma development allows for rigorous quality control to ensure the production of high-quality antibodies.
5. **Targeting complex epitopes:** Hybridoma technology enables the generation of monoclonal antibodies that can recognize complex epitopes, including conformational epitopes or post-translational modifications. This capability expands the range of targets that can be effectively studied and targeted by antibodies.
6. **Potential for antibody engineering:** Monoclonal antibodies produced through hybridoma development can be further modified and engineered to enhance their properties. This includes antibody humanization, affinity maturation, or conjugation to different molecules for specific applications, such as drug delivery or imaging.

By choosing hybridoma development, researchers gain access to highly specific monoclonal antibodies with unlimited supply, diverse applications, enhanced reproducibility, and the potential for antibody engineering. These advantages make hybridoma technology a powerful tool for antibody production, facilitating impactful research, diagnostics, and therapeutic advancements.



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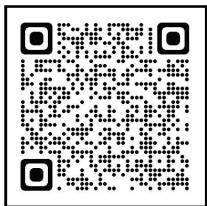


**LAMPIRE**  
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**MONOCLONAL**  
**ANTIBODY SERVICES**





# MONOCLONAL ANTIBODY SERVICES

Are you in need of top-notch monoclonal antibody services for your research or production needs? Look no further than LAMPIRE! With our comprehensive range of services, we provide the expertise, quality, and confidentiality you require.

At LAMPIRE, we specialize in:

**Hybridoma Development:** Unlock the potential of your antibodies with our cutting-edge hybridoma development techniques.

**Cell Culture Manufacturing:** From R&D scale to large-scale production, our state-of-the-art facilities ensure reliable and efficient cell culture manufacturing.

**Antibody Purification and Characterization:** We employ advanced techniques to purify and characterize antibodies, ensuring their quality and functionality.

**Cell Line Optimization:** Maximize productivity and efficiency with our expertise in cell line optimization, resulting in superior antibody production.

**Vivarium Services:** Our experienced team provides housing, husbandry, and in vivo support for your preclinical drug development projects.

Why Choose LAMPIRE?

- **AAALAC Accredited**
- **Ventilated Cage (IVC) Rack System**
- **Biorepository Storage**
- **Models: Mice, Rats, Guinea Pigs, Hamsters**
- **Environmentally Controlled**
- **100% HEPA-Filtered**
- **24 hr Closed Circuit Security**
- **AALAS Certified Technicians**
- **Species Specific Segregation**
- **Specialized Clean Rooms**
- **"Clean-Dirty" Corridor System**
- **Back-up Generators**

**Unparalleled Quality:** Our services are conducted under cGMP guidelines, and we hold FDA registration, USDA licensure, and AAALAC accreditation, assuring the highest standards.

**Expert Guidance:** Our industry experts with years of experience will be by your side, providing valuable insights and support throughout your project.

**Flexibility and Responsiveness:** We tailor our services to meet your unique needs, ensuring a flexible and responsive approach at every stage.

**Timely Delivery:** With our cGMP compliant Quality System, we complete projects on time, meeting your requirements and exceeding expectations.

Partner with LAMPIRE today and experience the difference in monoclonal antibody services. Contact us at [projman@lampire.com](mailto:projman@lampire.com) or call 215-795-2838 to kick-start your project. Trust LAMPIRE for excellence in research, development, and production of monoclonal antibodies.



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**LAMPIRE**  
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**ANTIBODY**  
**SUPPORT SERVICES**



# ANTIBODY SUPPORT SERVICES

Are you looking to push the boundaries of biomedical research? Do you need high-quality antibodies for diagnostics or therapeutic applications? Look no further than LAMPIRE. We are your trusted partner in antibody development, offering comprehensive support services that ensure success and drive scientific advancements.

## Why Choose LAMPIRE?

**Expertise You Can Trust:** With 30 years of experience in the field, our team of scientists and researchers is equipped with the knowledge and expertise to tackle even the most challenging antibody projects. We stay at the forefront of scientific advancements to deliver innovative solutions.

**Customized Solutions:** We understand that every project is unique. That's why we tailor our services to meet your specific requirements. Our scientific experts collaborate closely with you to design a customized plan that aligns with your goals and accelerates your research.

**State-of-the-Art Technologies:** Equipped with advanced technologies and state-of-the-art facilities, we deliver results of the highest quality. From antigen design and protocol review to antibody characterization and purification, our cutting-edge tools ensure precise and reliable outcomes.

**Comprehensive Service Range:** At LAMPIRE, we offer a complete suite of services to support your antibody development journey:

**Antigen Design and Protocol Review:** Leverage our expertise in antigen design and immunization protocols to maximize the success of your project.

**Antibody Characterization/QC Testing:** Our advanced testing methods provide accurate assessment of antibody purity, concentration, and specificity.

**Antibody Purification:** Benefit from our diverse purification techniques that guarantee high-quality antibodies for your research.

**Antibody Tagging Services:** Enhance the utility of your antibodies with our expert labeling solutions.

**Egg Yolk Processing:** Preserve chicken immunoglobulin yield with our specialized yolk separation and storage services.

**Unparalleled Customer Support:** Your success is our priority. We provide exceptional customer service and support throughout your project, ensuring a seamless and productive collaboration. Our team is always available to address your questions and provide guidance.

Unlock the potential of antibodies with LAMPIRE. Contact us today to discuss your specific antibody development needs. Let us be your partner in advancing scientific discoveries, diagnostics, and therapeutics.



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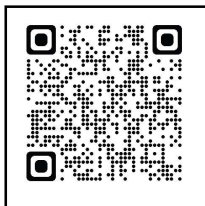




**LAMPIRE**  
BIOLOGICAL LABORATORIES



**CAREER**  
**OPPORTUNITIES**



# CAREER OPPORTUNITIES

## Join Our Growing Family - Explore Thriving Career Opportunities!

Welcome to LAMPIRE, where endless possibilities for personal and professional growth await! We are continuously expanding and are thrilled to welcome new team members into the LAMPIRE family. Discover exciting employment opportunities below:

### LAMPIRE Offers:

**Competitive Salary:** We value your talent and expertise, and we offer a salary that reflects your skills and contributions.

**Comprehensive Benefits:** Your well-being matters to us, and we provide medical, dental, life, vision, and disability insurances to ensure you and your loved ones are taken care of.

**Financial Security:** Prepare for your future with our 401k plan, complete with matching contributions and profit sharing options.

**Equal Opportunity:** At LAMPIRE, we embrace diversity and inclusivity, offering equal employment opportunities for all qualified applicants, regardless of race, color, religion, sex, or national origin.

### LAMPIRE at a Glance:

**Loyal Team:** A remarkable 37% of our employees have been a part of the LAMPIRE family for 5 years or more, demonstrating our commitment to fostering long-lasting careers.

**Dedicated Professionals:** We are proud that 20% of our team has been with LAMPIRE for an impressive 10 years or more, a testament to our supportive work environment.

**Experience Matters:** On average, our employees have served with us for an incredible 7 years and 6 months, showcasing the rewarding opportunities available at LAMPIRE.

### STEM Learning Advocates:

Join our team of STEM Learning Advocates and be part of an organization that values education and growth. At LAMPIRE, we actively participate in numerous job fairs, offering you the chance to connect with talented individuals and expand your network. Take advantage of our technical training opportunities in the life sciences domain, designed to nurture your skills and expertise. Our extensive internship program creates a pathway to success, with positions available across all departments and locations throughout the year.

Embrace the LAMPIRE experience and embark on an exciting journey of learning, collaboration, and advancement.

**Apply now and unlock your potential with LAMPIRE!**



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# PRESS RELEASE

## CONTACT INFORMATION:

LAMPIRE Biological Laboratories  
Gregory F. Krug  
(215) 795-2838  
gkrug@lampire.com

## RELEASE DATE:

FOR IMMEDIATE RELEASE



## LAMPIRE Biological Laboratories Expands in Bedford County, PA, Creating Job Opportunities and Advancing Animal Welfare

May 2, 2023, Everett, PA – A leading player in the life science industry, LAMPIRE Biological Laboratories, has announced an expansion project that will create job opportunities in Bedford County, PA. The expansion project includes the addition of three advanced animal housing facilities with state-of-the-art husbandry centers. This will allow for a wider range of species, demonstrating LAMPIRE Biological Laboratories' dedication to providing top-quality products and services to the scientific community.



One of the facilities will house over 400 animals such as llamas, alpacas, sheep, and goats, while another will accommodate pigs and goats all compliant with the strictest AAALAC regulations. These facilities feature cutting-edge feeders and water filtration systems, as well as removable feeders and automatic waterers to regulate the diet, enhance monitoring of animal health, and facilitate cleaning and maintenance.



The expansion project by LAMPIRE Biological Laboratories demonstrates its commitment to innovation, growth, and animal welfare. It will also contribute to the creation of job opportunities in Bedford County, PA, thereby supporting the local economy. The new facilities will provide a platform for the development of new and innovative products that will benefit the scientific community and the animals housed in the facilities. Lampire Biological Laboratories is thrilled to continue providing top-quality products and services to the life science industry with this expansion project. Lampire has been the leaders in in vivo research for over 45 years and we continue to strive to get it right the first time every time.

# PRESS RELEASE

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## LAMPIRE Biological Laboratories Expands in Bedford County, PA, Creating Job Opportunities and Advancing Animal Welfare

### About LAMPIRE Biological Laboratories

LAMPIRE Biological Laboratories is a leading international life science company that specializes in the production of biological reagents and raw materials used across a wide range of applications. With over 45 years of experience in servicing the diagnostic, pharmaceutical, biotechnology, and drug discovery markets, LAMPIRE has built a reputation for being a trusted partner that delivers high-quality and reliable products and services. The company is comprised of multiple research campuses and three state-of-the-art laboratory facilities, which are strategically located across Pennsylvania. LAMPIRE's cutting-edge facilities and talented team of experts enable the company to provide innovative solutions and stay at the forefront of the life science industry. LAMPIRE's products are shipped worldwide, and the company's commitment to quality has made it a go-to partner for many researchers, scientists, and other professionals in the life science community.



For more information, please visit [www.lampire.com](http://www.lampire.com) or contact us via email [lampire@lampire.com](mailto:lampire@lampire.com).



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## PROLIANT HEALTH & BIOLOGICALS AND LAMPIRE BIOLOGICAL LABORATORIES FORM STRATEGIC PARTNERSHIP TO ENHANCE CUSTOMER EXPERIENCE

June 9th 2023 - Proliant Health & Biologicals, a leading manufacturer of Bovine Serum Albumin (BSA), and LAMPIRE Biological Laboratories, a global provider of biopharmaceutical and diagnostic testing products, are thrilled to announce their strategic partnership. This collaboration aims to deliver enhanced solutions for custom and small package size customers in the life sciences industry.



The partnership between Proliant Health & Biologicals and LAMPIRE Biological Laboratories signifies a shared commitment to providing high-quality products and exceptional service to customers worldwide. LAMPIRE will leverage its expertise in contract filling to package and distribute Proliant's renowned BSA in smaller package sizes, meeting the specific requirements of customers.

Gregory F. Krug, Founder and President of LAMPIRE Biological Laboratories, expressed his enthusiasm about the partnership, stating, "We are excited to join forces with Proliant Health & Biologicals in this strategic collaboration. By

combining our strengths, we can deliver even greater value to our customers, providing them with tailored solutions and unmatched quality in the field of Bovine Serum Albumin. This partnership exemplifies our shared commitment to excellence."



Proliant Health & Biologicals is globally recognized as the pre-eminent bulk manufacturer of BSA, renowned for its meticulous quality control measures from raw material collection to packaging. Lampire Biological Laboratories, with its extensive market presence and expertise, brings additional value through its contract filling capabilities and customized formulation offerings.

Customers can expect a comprehensive range of BSA preparations, including Standard Grade and Reagent Grade, which adhere to stringent protease-free, IgG-free, low endotoxin, and low bioburden

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standards. Furthermore, Proliant and Lampire are dedicated to maintaining environmentally responsible manufacturing practices throughout their operations.

The collaboration between Proliant Health & Biologicals and Lampire Biological Laboratories signifies a new chapter in delivering tailored solutions to customers in the life sciences industry. Together, they are poised to meet the evolving demands of the market and ensure customer satisfaction.

### About Proliant Health & Biologicals:

Proliant Health & Biologicals is a renowned manufacturer of high-quality Bovine Serum Albumin (BSA) products. With a commitment to excellence and a global customer base, Proliant Health & Biologicals is dedicated to serving the needs of the life sciences industry.



### About LAMPIRE Biological Laboratories:

LAMPIRE Biological Laboratories is a leading international life science company that specializes in the production of biological reagents and raw materials used across a wide range of applications. With over 45 years of experience in servicing the diagnostic, pharmaceutical, biotechnology, and drug discovery markets, LAMPIRE has built a reputation for being a trusted partner that delivers high-quality and reliable products and services. The company is comprised of multiple research campuses and three state-of-the-art laboratory facilities, which are strategically located across Pennsylvania. LAMPIRE's cutting-edge facilities and talented team of experts enable the company to provide innovative solutions and stay at the forefront of the life science industry. LAMPIRE's products are shipped worldwide, and the company's commitment to quality has made it a go-to partner for many researchers, scientists, and other professionals in the life science community.

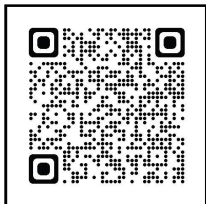
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**LAMPIRE**  
BIOLOGICAL LABORATORIES

**INDUSTRY LEADING**  
**CRO SOURCE**



# INDUSTRY LEADING

## CRO SOURCE

LAMPIRE stands as an exceptional Contract Research Organization (CRO), known for its unwavering dedication to scientific excellence. Our foremost priority lies in providing outstanding solutions to bolster critical research endeavors. With a passion for quality and a focus on cutting-edge science, we take immense pride in supporting your projects with top-notch services. Our team of experts offers a wide range of comprehensive solutions, including efficient project management, ensuring streamlined processes and timely outcomes. Moreover, we specialize in polyclonal and monoclonal antibody production, harnessing the power of diverse antibodies from multiple B cell lineages, as well as unleashing the potential of highly specific antibodies derived from a single B cell lineage. Gain critical insights into your drug's behavior within the body with our comprehensive Pharmacokinetic (PK) Studies, and understand how your drugs are metabolized and their potential interactions through in-depth Drug Metabolism Studies. Our experienced team also designs foolproof research protocols, ensuring scientific rigor and successful outcomes, while accelerating your research with tailor-made antigens designed by our experts, thereby boosting antibody production efficiency.

At LAMPIRE, we recognize the importance of customization and precision in research. As such, we offer specialized services to meet your specific needs. Our contract breeding services cater to generating specific animal models that suit your research requirements, while our cutting-edge Antibody Discovery services unlock new possibilities for research and therapeutic applications. Furthermore, we provide highly purified antibodies from various sources, elevating the quality of your research, and leverage our expertise for contract manufacturing of biological products and research materials, ensuring reliable and efficient production. To support your technical needs, our team offers complimentary Antigen Review and Design, providing expert guidance to optimize antibody production. We also excel in peptide synthesis and purification services, supplying high-quality research materials. Additionally, our custom conjugation service enables the linking of antibodies or other molecules to specific targets for research or diagnostic applications, tailored to your unique demands. Rounding out our technical support, we empower researchers to develop powerful immunoassays for the detection and measurement of specific molecules in samples.

As a globally recognized player in the scientific community, LAMPIRE is proud of its ISO 13485:2016 and AAALAC accreditation as a US manufacturer. Our commitment to delivering high-quality products and services remains steadfast, making us the trusted partner for researchers worldwide. No matter where you are, our premium solutions are shipped to destinations across the globe, ensuring your research thrives and makes an impact. We invite you to join hands with LAMPIRE and unlock your research potential. Our dedicated team of experts is ready to collaborate with you, driving innovation and scientific excellence in your projects. Together, we can shape the future of research and make remarkable strides in the pursuit of knowledge. So, contact us today and embark on a journey of discovery and advancement in the scientific realm. Let's make a difference and create a brighter future for humanity through groundbreaking research and innovation



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**LAMPIRE**  
BIOLOGICAL LABORATORIES



## **PBMC ISOLATION**

**FROM NAIVE ANIMALS**



# PBMC ISOLATION

## FROM NAÏVE ANIMALS

### Enhance Your Research with Trusted PBMC Supply!

We are thrilled to announce that LAMPIRE is now offering a comprehensive line of Peripheral Blood Mononuclear Cells (PBMC) from Naïve animals to researchers worldwide. With our established track record as a reliable supplier of key research reagents, we are committed to providing top-notch PBMC to fuel advancements in scientific exploration.

Our PBMC are meticulously crafted to meet exacting standards and are sourced from domestic donors, ensuring their quality and consistency. At LAMPIRE, we boast a wide range of species from our controlled colonies, allowing researchers the flexibility to select the most suitable options for their projects. Additionally, we offer various buffers and formats, tailoring the supply to match specific research requirements.

We understand that every research endeavor is unique, and that's why we go the extra mile to accommodate your needs. LAMPIRE's standard catalog materials can be further customized, making sure they align perfectly with your research goals.

For researchers embarking on antibody discovery campaigns, our PBMC serve as the ideal companion product, enhancing the effectiveness of your efforts.

At LAMPIRE, we value the partnership with our customers. That's why we offer a complimentary technical call with our scientific staff to discuss your research objectives. Whether you have questions, require guidance, or need assistance in selecting the right PBMC for your studies, we are here to support you every step of the way.

To take advantage of LAMPIRE Presents and explore our cutting-edge PBMC offerings, get in touch with us today. Contact us by phone at (215) 795-2838 or drop us an email at [lampire@lampire.com](mailto:lampire@lampire.com). Let's embark on a journey of scientific excellence together!

#### Applications:

- Recombinant Antibody Generation
- Infections Disease Studies
- cDNA Libraries
- Immunological Assays



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**LAMPIRE**  
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**AACC**



## Featured Items

### Secondary Antibodies:

Experience the excellence of LAMPIRE's secondary antibodies, crafted with over 40 years of expertise. Our skilled technicians purify these antibodies in-house to meet your custom specifications while maintaining a competitive price. Enjoy high purity and specificity, whether you require small research sizes or bulk production quantities. Our secondary antibodies are provided at a concentration of 10 mg/ml in phosphate-buffered saline (PBS) with sodium azide, unless specified otherwise. If you need unique formulations like lyophilization, just let us know. Our products are shipped refrigerated in liquid form, but frozen shipment options are available with additional charges for dry ice and custom formulations. For more details, please check our product listing or reach out to our Customer Service team.

### Mouse IgG:

At LAMPIRE, we take pride in producing Mouse IgG purified by our trained technicians at our advanced Bioprocessing facility in Pennsylvania. Rigorous quality control testing ensures you receive a top-notch product at an affordable price. Our Mouse IgG is available in research and bulk volumes to cater to all your requirements. Rest assured, we ship our products worldwide on a daily basis.

### Bovine Serum Albumin (BSA):

LAMPIRE is a renowned provider of Bovine Serum Albumin (BSA) with a strong presence in the market. We offer an extensive catalog of BSA, available in both liquid and lyophilized forms. Additionally, our BSA+ serves as a convenient blocking agent, boasting superior solubility and filterability. With low endotoxin, enzyme, and protease activity, our BSA ensures the integrity of your assays, component stability, and suitability for cell culture. Thanks to our closed-loop manufacturing process, you can count on minimal contamination and maximum reproducibility. Shipping is available to the EU and worldwide. Choose from standard, reagent, custom, US-sourced, and New Zealand-sourced BSA options. For further information, refer to our product listing or contact our Customer Service team.

As always, for the latest and most accurate information, we recommend visiting the official LAMPIRE website or contacting us directly. We are committed to providing you with top-quality products and services that cater to your research and scientific needs



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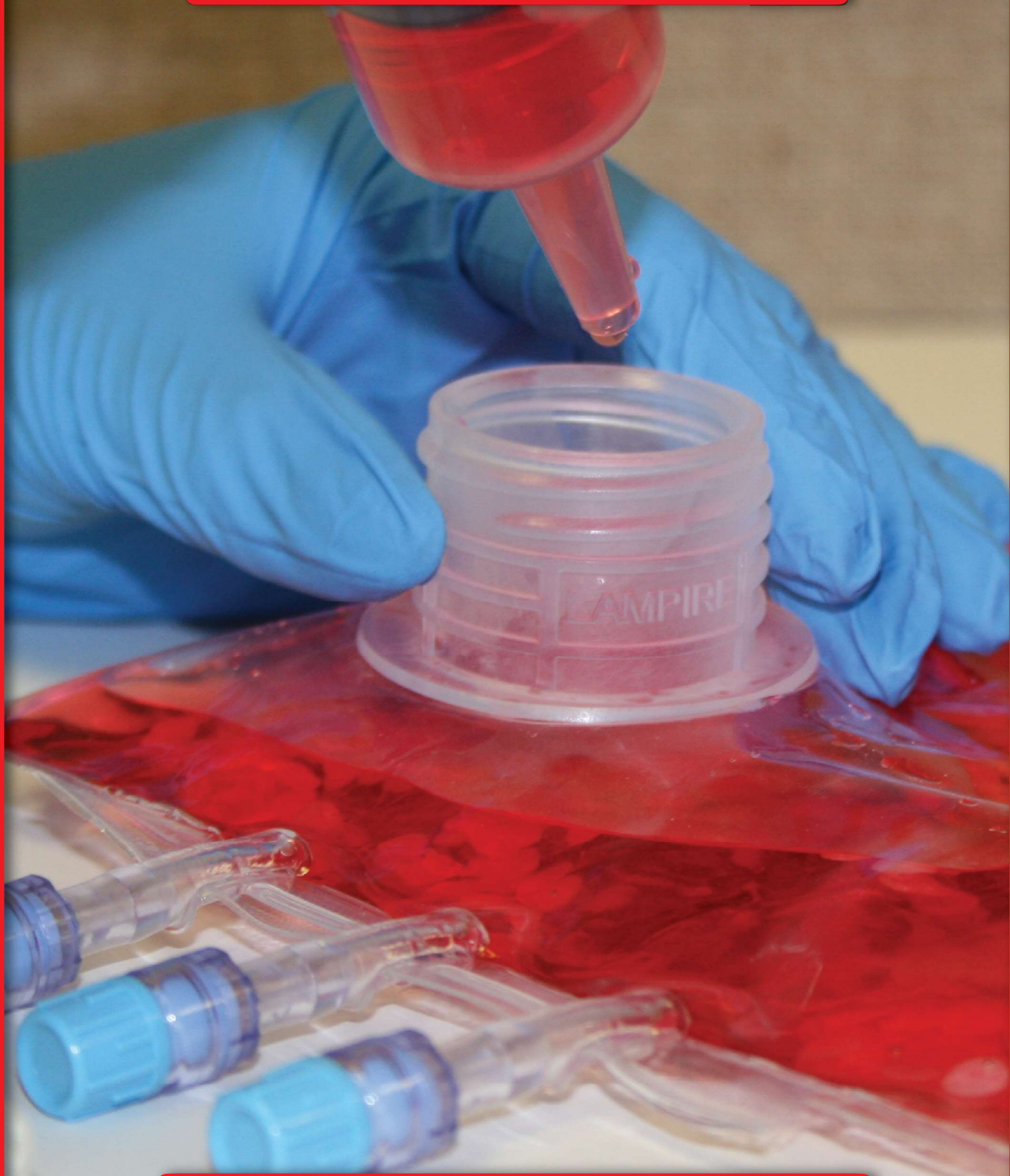
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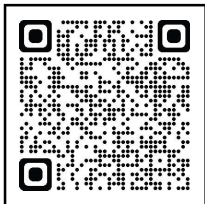


**LAMPIRE**  
BIOLOGICAL LABORATORIES



**OMNI C3**

**CELL CULTURE BAGS**



# OMNI C3

## CELL CULTURE BAGS

LAMPIRE OMNI C3® Cell Culture Bags are designed for the culture, harvest, and storage of cells in a simple, single-use bag format. These bags offer several key features that make cell culture processes more efficient and reduce the risk of contamination.

**Gas permeability:** The OMNI C3® Cell Culture Bag is gas permeable, which allows for the efficient transfer of gases. As a result, there is no need for additional gassing of the cultures, simplifying the cell culture process.

**Ports for aseptic handling:** The bags can be fitted with Luer-lock ports and/or needle ports, which facilitate aseptic inoculation and sampling. These connections minimize the opportunity for contamination during cell culture procedures.

**Scalability:** Ports on the bags enable the connection of multiple bags in a series, supporting production scale-up for larger-scale cell culture processes.

**Customizability:** The OMNI C3® Cell Culture Bags can be customized to include the desired quantity and type of ports needed for each specific project, ensuring flexibility and compatibility with various cell culture setups.

**Hardy construction:** The bags are designed to support rapid cell growth and can withstand centrifugation, making them suitable for a variety of cell culture applications.

**Long-term cryo-cell storage:** The bags are capable of storing cells in cryogenic conditions for long-term storage needs.

**Adherent cell culture:** While the bags perform well with suspension cell lines (such as hybridoma, CHO, and HEK293), they can also support adherent cell lines with the addition of an artificial polyester mesh substrate. Additionally, cell scaffold materials are available as an option, which can enhance the production of anchorage-dependent cells.

**Waste reduction:** The use of collapsible bags helps to reduce the amount and cost of biological waste collection in the laboratory.

**Additional support:** LAMPIRE offers a catalog of cell culture media products, and their technical team can create custom formulas tailored to specific project needs, ensuring optimal cell growth and performance.

It's important to note that these OMNI C3® Cell Culture Bags are intended for research use only. The bags come in multiple standard sizes and configurations, and customers have the option to customize them to suit their specific requirements. For more information, interested parties can refer to the product listing or contact LAMPIRE Customer Service for further assistance.



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# LAMPIRE

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## LAMPIRE

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### Calf Serum

*Donor, Unfiltered*

Cat #: 7321100

Vol: 100 mL

Lot #: 20B20417

Store: 2-8° C

DOM: 17FEB2021

*For Research Use Only*

[www.lampire.com](http://www.lampire.com)

(215) 795-2838 | PO BOX 270, Pipersville PA 18947

# ANIMAL

## SERUM & PLASMA



# ANIMAL: SERUM & PLASMA

At LAMPIRE, we offer a range of animal serum and plasma products. Our Domestic Serum is manufactured from whole animal blood that we aseptically draw into bottles or tubes without using any anticoagulant. We allow the blood to clot before subjecting it to centrifugation, which removes the clot, red blood cells, and buffy coat. Once separated, we freeze the serum after conducting pH and total protein tests using a refractometer. You can choose between our "unfiltered" serum, which remains in its original state, or our "filtered" serum, which undergoes additional purification. The filtered serum passes through a 0.2µm membrane and undergoes a 48-hour microbial content screening process before shipment to ensure its purity and safety.

Similarly, our Domestic Plasma is created by aseptically drawing animal whole blood into a specified anticoagulant to prevent clotting. After centrifugation, we separate the red blood cells and buffy coat, and then promptly freeze the plasma on the same day as collection. Like our serum, the Domestic Plasma is available in "unfiltered" and "filtered" options. Our filtered plasma goes through a 0.2µm membrane filtration and a 48-hour microbial content screening process before it is shipped, guaranteeing its high quality and purity.

I want to emphasize that our filtered products undergo rigorous microbial content screening to meet the strictest safety standards and ensure their suitability for various applications. For our Domestic Plasma, we recommend aliquoting the product into single-use volumes to maintain its performance, as multiple freeze-thaw cycles may impact its effectiveness. To cater to different research needs, we offer multiple anticoagulants for Domestic Plasma. For the most up-to-date and detailed information, feel free to refer to our official documentation or reach out to our team directly. We are here to assist you in finding the best solutions for your research and experimental requirements.

## Anticoagulants:

Acid Citrate Dextrose (ACD/ACD-A), Alsevers, Citrate Phosphate Dextrose (CPD), Citrate Phosphate Dextrose Adenine-1 (CPDA-1), Na-Citrate, K2-EDTA, K3-EDTA, Na-EDTA, Li-Heparin, Na-Heparin, Potassium Oxalate\*, Potassium Oxalate Na-Fluoride\*, Sodium Fluoride\*, Custom Anticoagulants\*

\* Some anticoagulants may have additional lead time, surcharge, please inquire.

## Applications:

- Study of Cells for Hematology Research
- Assay & Diagnostics Research
- Hematology & Coagulation Controls
- ELISA, Immuno-precipitation & Western Blot



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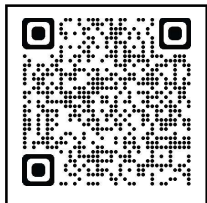


# LAMPIRE

BIOLOGICAL LABORATORIES



## OLIGONUCLEOTIDE ANTIBODY GENERATION



# OLIGONUCLEOTIDE ANTIBODY GENERATION

LAMPIRE is now offering its customers Oligonucleotide Anti-sense therapies, which are a class of oligonucleotide-based therapeutics used to treat various diseases. To support drug development and monitor anti-sense drug levels, LAMPIRE provides anti-oligonucleotide antibodies using their custom protocols.

LAMPIRE's Custom Characterization Strategies include:

**Oligo conjugation to a variety of carrier molecules:** They can attach the oligonucleotides to different carrier molecules to enhance their stability or target specific cells or tissues.

**Custom oligo immunization protocols:** LAMPIRE develops tailored immunization protocols to elicit strong and specific immune responses against the oligonucleotides in the animal hosts.

**Titer monitoring via ELISA:** Enzyme-Linked Immunosorbent Assay (ELISA) is used to quantify the antibody levels produced in response to the oligonucleotide immunization.

**Strict adherence to immunization strategies:** LAMPIRE follows rigorous and well-established immunization strategies to ensure consistent and reproducible results.

**High immunogenic response in animals:** The custom protocols are designed to provoke a robust immune response in the animals, leading to the production of high-quality antibodies.

**High sensitivity and specificity:** The generated antibodies exhibit high sensitivity and specificity, allowing them to accurately detect and bind to the target oligonucleotides.

**Specific to downstream use:** The antibodies are tailored to meet the specific requirements of the downstream applications, ensuring their optimal performance in drug development and monitoring.

**Affinity purification using biotinylated material with Avidin resin coupling:** Affinity purification techniques involving biotinylated materials and Avidin resin coupling are employed to isolate and purify the anti-oligonucleotide antibodies effectively.

By offering these custom characterization strategies, LAMPIRE aims to support the development of anti-sense therapies and enable researchers and pharmaceutical companies to advance their drug discovery and monitoring efforts effectively.



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**LAMPIRE**  
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**PHARMACOKINETIC**  
**STUDIES**



# PHARMACOKINETIC STUDIES

We are thrilled to offer you our exceptional PK (Pharmacokinetic) and ADME (Absorption, Distribution, Metabolism, and Excretion) studies, backed by cutting-edge facilities and a team of expert technical staff.

At LAMPIRE, we understand that every research project is unique, and that's why we take pride in providing a wide range of customized services tailored to meet your specific needs. When you partner with us, you can rest assured that your research goals become our top priority.

One of our core values is exemplary animal care, and we take this commitment seriously. Our state-of-the-art vivariums are designed to provide the utmost comfort and well-being for the animals involved in our studies. We hold ourselves to the highest industry standards, as evidenced by our AAALAC accreditation, OLAW assurance, and USDA licensure. These certifications are a testament to our dedication to ethical and responsible animal research practices.

In addition to our focus on animal welfare, we place exacting attention on drug delivery protocols, sample collection techniques, and data integrity. Our team follows stringent procedures to ensure the accuracy and reliability of your research outcomes. We understand that the success of your study depends on the precision and reliability of the data, and we aim to set the standard in this regard.

Communication is key to a successful collaboration, and we make sure to keep you informed every step of the way. Our expert technical staff is always available to address any queries or concerns you may have during the course of your study. We believe that transparent communication fosters a strong partnership and leads to the most effective research outcomes.

By choosing LAMPIRE, you are partnering with a company that is dedicated to advancing scientific research through the highest quality PK/ADME studies. We are excited to join you on your journey to innovative discoveries and breakthroughs in the pharmaceutical and biotech fields. Let's set the standard for excellence in research together!



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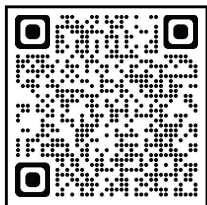
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## ANIMAL

ABATTOIR BIOLOGICAL PRODUCTS



# ANIMAL

## ABATTOIR BIOLOGICAL PRODUCTS

### LAMPIRE: Your Trusted Source for Abattoir-Derived Products!

Looking for premium-quality abattoir-derived glands, tissues, organs, blood, and fluids for your research needs? Look no further! LAMPIRE is a leading supplier, conveniently located in Pennsylvania, near the top USDA-approved abattoir facilities for beef, veal, and porcine in the United States.

### Why Choose LAMPIRE?

**Unmatched Expertise:** Our experienced technicians meticulously procure and process products to meet your specific requirements, ensuring top-notch quality every time.

**Tailored Solutions:** We offer highly customizable products and preparations, so you can find the perfect fit for your academic research or pharmaceutical and medical device production.

**Accessible & Traceable:** With our strategic location, we can provide you with quick access to avian, bovine, porcine, and ovine-derived products. Rest assured, our abattoir-derived offerings are fully traceable to meet stringent regulatory standards.

**Cost-Effective Alternative:** Amid increased USDA/FDA regulations, our abattoir blood products and tissues are now more affordable, making them an ideal cost-sensitive alternative to donor material.

**Global Reach:** We proudly serve clients worldwide, with APHIS registration facilitating smooth international shipments, including to the EU.

### Explore Our Comprehensive Product Listing!

Whether you need small research quantities or bulk supplies, LAMPIRE has you covered. From cutting-edge medical breakthroughs to academic discoveries, our varied collection sizes cater to your unique demands.

### Customer Satisfaction is Our Priority!

Our dedicated Customer Service team is always here to assist you. Contact us today to learn more about our top-notch abattoir-derived products and discover how LAMPIRE can be your partner in advancing scientific knowledge and innovation.

Unleash the potential of abattoir-derived products for your research. Trust LAMPIRE - Your Gateway to Excellence!



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# LAMPIRE

BIOLOGICAL LABORATORIES



## BSA

**BOVINE SERUM ALBUMIN**



# BSA

## BOVINE SERUM ALBUMIN

At Lampire, we take immense pride in offering researchers and manufacturers our top-quality BSA for their critical experiments. Our commitment to excellence drives us to deliver BSA with the highest level of consistency, traceability, and quality in the industry. With meticulous attention to detail, our BSA line of products is protease-free, IgG-free, and virtually free of any contaminants that could potentially interfere with our customers' valuable research and applications.

We understand the importance of reliable results, and that's why our BSA contains no detectable IgG, endotoxin, enzyme, or protease activity. This assurance ensures assay integrity, component stability, and cell culture suitability, giving our customers the confidence they need in their work.

One of the key advantages of using Lampire BSA lies in its suitability for cell culture applications. Researchers can trust that their cell lines will flourish without any damage or disturbances, thanks to our purified and contaminant-free BSA. Our reagent grade products are specially formulated to be free of lipids and fatty acids, further enhancing the purity and reliability of experiments.

Throughout our manufacturing process, from raw material collection to finished packaging, we employ the highest standards of purification to create a BSA that offers superior solubility and filterability characteristics. We understand the importance of efficient processes and reduced costs, and our BSA is designed to streamline experiments and enhance productivity.

Our dedication to meeting diverse needs is reflected in our range of package sizes, providing researchers with flexibility and reducing wastage. For added convenience, we offer both lyophilized and liquid BSA options, ensuring ease of handling and storage.

At Lampire, we are committed to empowering researchers and manufacturers with top-quality BSA that unlocks the full potential of their work. Trust in Lampire BSA to elevate your experiments to new heights and drive groundbreaking discoveries. Join us and experience the difference of using Lampire BSA for your research and applications. Together, let's pave the way for progress and innovation!

### Features and Benefits

- High purity, low interference, low background
- Low SPC bioburden minimizes introduction of bacterial enzymatic or endotoxin contamination
- Low IgG – must be absent from both pharmaceutical end products and diagnostic assays
- Protease Free – no damage to proteins, diagnostics or cells
- Excellent clarity & filterability – reduces processing problems and cost
- Low endotoxin – can be toxic to cells, critical for pharmaceutical end-products
- Traceable to source animals, easing regulatory approval and export documentation
- TSE Certificate of Suitability/Validation Study
- Virus (9CFR) and mycoplasma testing available upon request



LAMPIRE is the leader of In-Vivo research and products. We pride ourselves on going above and beyond the industry standard.

We are AALAC, OLAW and ISO 13485:2016 certified.

The health and well-being of our animals has been, and always will be our top priority.

Each collection is conducted under the strict guidelines that are set forth in our Standard Operating Procedures overseen by our QMS system.

## SOCIAL MEDIA

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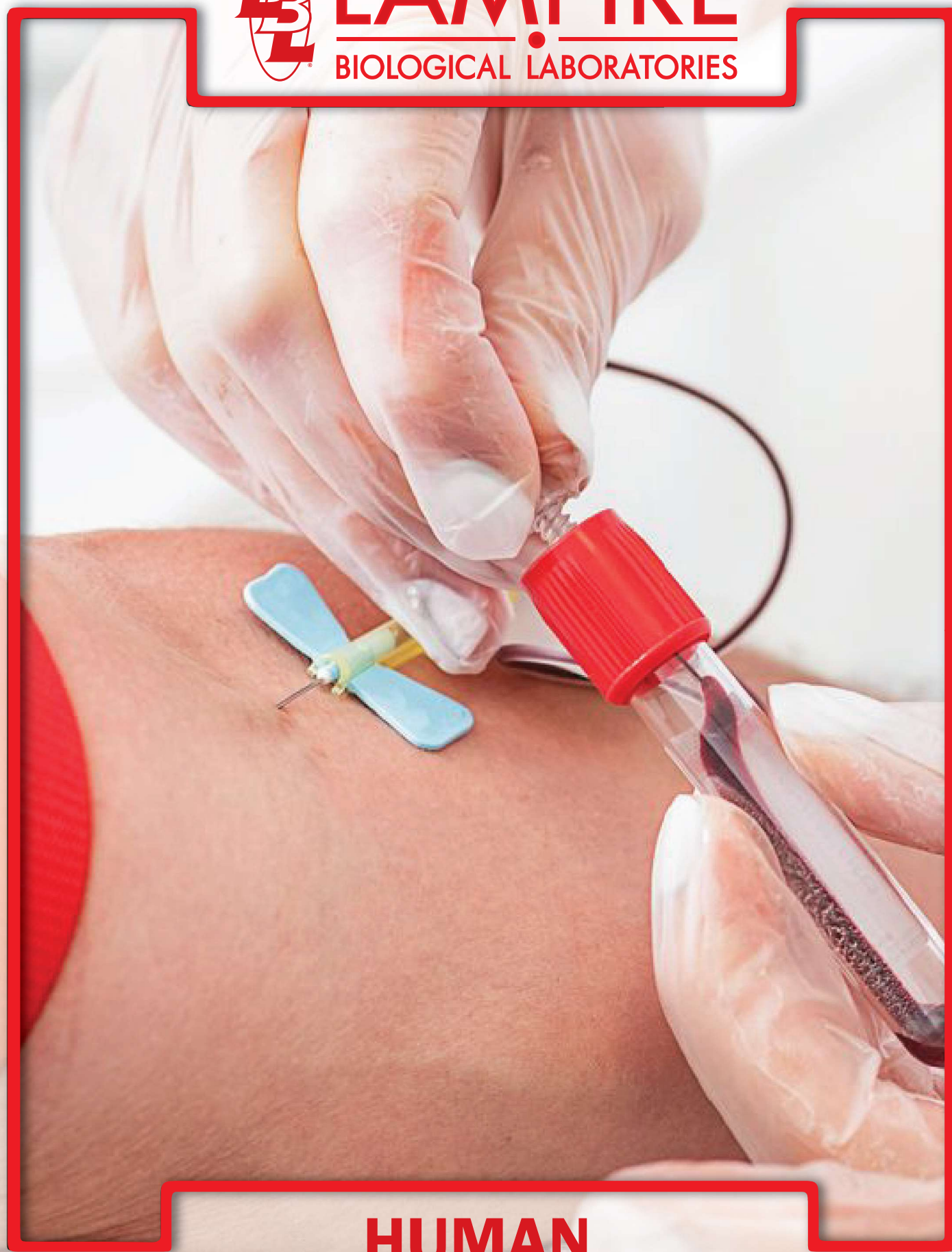
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**LAMPIRE**  
BIOLOGICAL LABORATORIES



**HUMAN**

**BIOLOGICAL PRODUCTS**



# HUMAN BIOLOGICAL PRODUCTS

## LAMPIRE: Leading Supplier of Human Biological Products

Explore our diverse selection of human blood and biological products at LAMPIRE, catering to all your research and diagnostic needs. Our offerings include Human Whole Blood and Human Blood Cell products, meticulously collected from FDA-licensed centers across the United States.

### Key Advantages:

**Extensive Donor Diversity:** Benefit from our vast network of collection centers, providing human biological materials from diverse donors, allowing targeted studies based on gender, race, and age.

**Tailored Solutions:** Collaborate with us to meet your unique research requirements through custom collection requests and protocols.

### Applications:

**Targeting Drug Development:** Identify potential drug targets and facilitate innovative pharmaceutical solutions using our products.

**Assay Development & Validation:** Utilize our biological controls and human blood products for reliable and accurate experimental results.

**Advancing Hematology Research:** Drive groundbreaking hematology research using our human blood and blood cell products.

**Unlocking Immune Response Insights:** Gain valuable insights into the immune system's response mechanisms to infections and therapies.

**Biomarker Discovery & Validation:** Discover and validate essential biomarkers for various medical conditions using our high-quality human biological products.

**Calibration & Medical Device Demonstration:** Ensure precise calibration and accurate functioning of medical devices with our human blood samples.

**Cell Separation for Biomedical Research:** Access a diverse range of blood cell types essential for various biomedical studies.

**Advancing Bleeding & Clotting Therapies:** Develop and test therapies for bleeding and clotting disorders, advancing medical treatments.

**Matrix for Drug Therapy Studies:** Utilize our human blood products as a reliable matrix for in-depth studies on drug therapies.

## LAMPIRE: Your Reliable Research Partner

Explore our comprehensive product listings or contact our dedicated Customer Service for personalized assistance and in-depth information. Let LAMPIRE empower your scientific journey with top-tier human biological products and solutions.



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**LAMPIRE**  
BIOLOGICAL LABORATORIES



**LOBSTER**

**HEMOCYANIN NOVEL CARRIER PROTEIN**



# LOBSTER

## HEMOCYANIN NOVEL CARRIER PROTEIN

LAMPIRE's latest innovation in life science research products - Lobster Hemocyanin (LLH)!

We are thrilled to offer this novel carrier protein that promises to revolutionize the preparation of highly immunogenic antigens.

LLH, derived from sustainably sourced American lobsters, is a unique protein that serves as an excellent carrier for boosting immune responses to haptens. Haptens are small molecules that may not be very immunogenic on their own. However, when conjugated with LLH, they become more recognizable to the immune system, leading to enhanced antibody production.

Our extensive research and development efforts have shown that LLH is just as effective as the well-established Keyhole Limpet Hemocyanin (KLH) in promoting the generation of rabbit polyclonal antibodies against conjugated haptens. This makes LLH a promising alternative to KLH or a complementary option when used in combination.

To ensure the utmost convenience and stability, LLH is provided as a lyophilized powder, carefully preserved in phosphate buffer saline (PBS). Each vial contains 20 mg of LLH, making it easy for researchers to work with precise quantities.

At LAMPIRE, we are committed to catering to the diverse needs of our customers. Therefore, we offer various package sizes, including bulk options, to accommodate specific research requirements. Should you need a custom solution, feel free to reach out to us, and our dedicated team will be delighted to assist you.

With Lobster Hemocyanin, LAMPIRE continues to lead the way in providing cutting-edge tools for immunogenicity studies and antibody development. Join us in exploring the exciting potential of LLH and elevate your research to new heights!

### Features and Benefits

- LLH is an Effective Novel Carrier Protein
- Low Pre-Existing Immunity to LLH in Rabbits
- Comparable Antibody Titers are Elicited between LLH and KLH Conjugated Protein & Peptide Antigens
- Animals Immunized with LLH Conjugates Do Not Produce Cross-Reacting Antibodies to KLH
- Immune Response to the LLH Protein is Less than to KLH; Enhancing Response to the Hapten
- LLH Can Be Alternated in Immunization Protocols Utilizing BSA, OVA, and KLH to Reduce Immunodominance of the Carrier Molecule



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**LAMPIRE**  
BIOLOGICAL LABORATORIES



**LAMPIRE**  
BIOLOGICAL LABORATORIES  
**Donor: Whole Blood**  
**Alligator w/Alsevers**  
Catalog #: 7200103  
Bleed Date: 18JUN2019  
Volume: 500 mL  
Lot Number: 19G20193  
Store: 2-8° C  
[www.lampire.com](http://www.lampire.com)

**ANIMAL**

**WHOLE BLOOD & BIOLOGICAL PRODUCTS**



# ANIMAL:

## WHOLE BLOOD & BIOLOGICAL PRODUCTS

LAMPIRE, your trusted supplier of Donor Animal Blood-Derived Products for over 40 years! We take pride in offering a diverse range of high-quality products derived from donor animal blood to meet your research and manufacturing needs.

### Our Products:

We provide an extensive selection of products, including whole blood, washed red blood cells, filtered or unfiltered plasma, and sera. Whatever your requirements, we have the right product to support your endeavors.

### Quality Assurance:

At LAMPIRE, quality is our priority. All our products undergo rigorous QC testing before they are shipped to ensure consistent and reliable results in your experiments or manufacturing processes.

### Customization:

We understand that every project is unique. That's why we offer the flexibility of custom collection specifications, allowing you to tailor the characteristics of our products to match your specific requirements.

### Options for Versatility:

Choose from pooled or individual lots, gender-specific lots, and a variety of anticoagulants to suit your research design and applications. We believe in providing options to empower your work.

### Domestic and Global Reach:

Whether you're based locally or internationally, we cater to all customers, offering access to a diverse range of host species and products on a global scale.

### On-Time Delivery:

We value your time, and we ensure on-time delivery of your orders, so you can keep your research or manufacturing projects on track without any delays.

### Competitive Pricing:

We understand the importance of cost-effectiveness. Our competitive pricing makes our products accessible and affordable for research of all sizes and large-scale manufacturing operations.

### Exceptional Customer Support:

Our dedicated customer service team is here to assist you every step of the way. We are committed to making your experience with LAMPIRE smooth, efficient, and enjoyable.

We look forward to supporting your research and manufacturing endeavors with our consistent product quality, wide range of options, and friendly customer support. Trust in LAMPIRE for all your donor animal blood product needs, just like countless customers have done for over four decades!



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BIOLOGICAL LABORATORIES



## LAMPIRE

BIOLOGICAL LABORATORIES

Catalog

**Mouse IgG**

PBS, pH 7.4

0.09% Sodium Azide

Lot: 18D51013

Conc: 10mg/mL

Qty: 10 g

Vol: 1,000

Store at 2-8° C or colder

[www.lampire.com](http://www.lampire.com)

## PURIFIED PROTEINS

AND REAGENTS



# PURIFIED PROTEINS AND REAGENTS

## LAMPIRE Presents: High-Quality Immunoglobulins and Secondary Antibodies

LAMPIRE, your leading supplier of top-notch Immunoglobulins and secondary antibodies since 1979. We take pride in our diverse line of products, all developed and manufactured in-house with the utmost care and precision. Our experienced technicians are dedicated to providing you with custom purification options that perfectly suit your needs, all at competitive prices.

**Immunoglobulins with Unmatched Purity and Specificity:** Our secondary antibodies are renowned for their high purity and exceptional specificity, making them the ideal choice for a wide range of research applications. Whether you require small research sizes or bulk production quantities, LAMPIRE has you covered.

**Customized Purification to Fit Your Requirements:** At LAMPIRE, we understand that each experiment is unique, which is why our skilled technicians can purify secondary antibodies to your exact specifications. This personalized approach ensures that you get the most reliable and accurate results for your specific research needs.

**Formulations and Shipping Options:** Our purified products and reagents are provided at a concentration of 10 mg/ml in phosphate-buffered saline (PBS) with sodium azide, unless you request otherwise. Should you require alternative formulations, such as lyophilized versions, we are more than happy to accommodate your preferences.

**Secure and Efficient Shipping:** To ensure your products arrive in optimal condition, we ship them refrigerated in liquid form. However, depending on your requirements, we can also ship frozen to maintain the integrity of the secondary antibodies. Rest assured, we take great care in the shipping and handling process to guarantee your satisfaction.

## Additional Options

For specialized shipping needs, such as dry ice shipments or custom formulations, we offer additional options to cater to your unique circumstances. Our aim is to provide a seamless experience that meets all your expectations.

## Customer Service at Your Disposal

LAMPIRE's commitment to exceptional customer service means we're always here to assist you. If you have any questions or need more information about our products or services, our dedicated Customer Service team is just a call or email away. We're happy to help in any way we can.

We hope you find our extensive product listing helpful. For more details or to place an order, don't hesitate to contact us. Thank you for choosing LAMPIRE as your trusted partner in Immunoglobulins and secondary antibodies. We look forward to supporting your research endeavors with our top-quality products.



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# LAMPIRE

BIOLOGICAL LABORATORIES



## CELL CULTURE

**MEDIA & REAGENTS**



# CELL CULTURE

## MEDIA & REAGENTS

LAMPIRE, your premier provider of cutting-edge solutions for the Research Use Only (RUO) market. We specialize in custom tissue culture media, reagents, supplements, and mouse embryo culture media, catering to researchers engaged in cell culture and embryonic stem (ES) cell studies, both in the human and animal domains. At LAMPIRE, we pride ourselves on our commitment to excellence, ensuring the highest quality and consistency in all our offerings.

### Experience and Quality Assurance:

With over two decades of experience, our team at LAMPIRE has honed our expertise to deliver the finest products on the market. Our stringent cGMP and Quality Management Systems guarantee that every product meets rigorous quality standards, providing you with confidence and reliability in your research endeavors.

### Customization for Your Needs:

At LAMPIRE, we recognize that each research project is unique. That's why we offer fully customizable solutions to meet your specialized requirements, whether it's the formulation of tissue culture media, reagents, or supplements. Our personalized approach ensures that you receive tailored products in packaging sizes that suit your needs perfectly.

### Consistency You Can Rely On:

We understand the importance of consistency in research. To maintain the utmost reliability, our standardized SOPs and Quality Assurance oversight ensure that each production lot adheres to the same stringent quality standards. You can trust that every order delivers the same high performance and quality as the last.

### Uninterrupted Supply Chain:

Research cannot afford delays, and at LAMPIRE, we share your commitment to progress. Our redundant logistics solutions guarantee an uninterrupted supply chain, eliminating the worry of product delays so you can focus on advancing your scientific goals seamlessly.

### Collaborative Partnership:

As partners in your research journey, LAMPIRE offers direct access to our esteemed scientific team. We believe that collaboration is key to driving innovation, and our experts are readily available to support you, discuss your unique challenges, and find the best solutions for your specific needs.

### Global Reach with Private Labeling:

For decades, LAMPIRE has been a leading worldwide biological and reagent supplier, and we ship our products to researchers across the globe. Moreover, we offer private labeling services, allowing you to proudly brand our high-quality products with your company's logo, further enhancing your research identity.

### Streamlined Ordering with Standing Orders:

We value your time and understand the importance of a smooth ordering process. Our standing order option ensures seamless procurement, saving you valuable time. You can customize standing orders to suit your research requirements and cancel them with adequate notice, all without any penalties.



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# SNAPSHOT



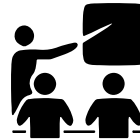
## ABOUT LAMPIRE



LAMPIRE Biological Laboratories is a privately held life science company that specializes in producing high-quality biological reagents used in the diagnostic and pharmaceutical industries. Founded in 1977, LAMPIRE offers custom polyclonal and monoclonal antibody development, technical support services, and has ISO 13485:2016 and AAALAC accreditations. LAMPIRE houses more than 7,000 animals representing over 20 species and employs animal and laboratory technicians with extensive experience and training. Beyond the laboratory, LAMPIRE is committed to supporting life science education programs and workforce development at the local and state level.



## KEY METRICS



**> 5,000**  
**HOURS OF INDIVIDUAL**  
EMPLOYEE TRAINING PERFORMED ANNUALLY



**600 ACRE**  
**TECHNICAL RESEARCH**  
& PRODUCTION CAMPUS,  
1 OF 7 LOCATIONS



**> 30**  
**DIFFERENT COUNTRIES**  
HAVE RECEIVED LAMPIRE PRODUCTS



**> 1,000**  
**CUSTOM ANTIBODY**  
PROJECTS STARTED ANNUALLY



**> 50%**  
**CAPACITY INCREASE AS**  
PART OF THE EVERETT  
EXPANSION PROGRAM



## SHIPPING



**> 35%**  
TOTAL SALES ARE FROM  
INTERNATIONAL CLIENTS

**> 3 DECADES**  
OF EXPERIENCE WITH  
SHIPPING INTERNATIONALLY

### FUN FACT:

LAMPIRE PRODUCTS HAVE  
EVEN TRAVELED TO SPACE



## ANIMAL



**> 20**  
UNIQUE SPECIES  
INCLUDING: COW, CHICKEN, GOAT, SHEEP,  
LLAMA, TURKEY, HORSE, DONKEY, RAT, ETC.

**ALL 6**  
CLASSIFICATION CATEGORIES  
OF SPECIES: FISH, AMPHIBIANS, REPTILES,  
BIRDS, MAMMALS, AND INVERTEBRATES

**> 7,000**  
ANIMALS HOUSED  
IN OVER 30 VIVARIUMS THROUGHOUT PA

## The In-Vivo Research Leaders For Over 45 Years...



**> 1,000,000**  
ORDERS PROCESSED



**> 800%**  
INCREASE IN CUSTOM  
CAMELID ANTIBODY PROJECTS  
OVER THE LAST 2 YEARS



**5 STAR**  
CUSTOMER SATISFACTION  
RATING BASED ON AUDIT REPORTS



**> 5,000**  
ASSIGNED PRODUCT  
CATALOG NUMBERS

## PRODUCTION



**60%**  
PRODUCTS  
BIOLOGICAL PRODUCTS  
PURIFIED PROTEINS & REAGENTS  
SPECIALTY PRODUCTS

**40%**  
CRO SERVICE  
INCLUDING CUSTOM POLYCLONAL  
& MONOCLONAL ANTIBODY  
PRODUCTION

**75%**  
OF ALL ORDERS  
ARE CUSTOM

**ROBUST QMS ENSURING  
HIGH STANDARD OF EFFICIENCY**

## STAFF



**> 40%**  
INCREASE IN STAFF  
OVER THE LAST 5 YEARS

**> 21%**  
HAVE WORKED 10+ YEARS  
AS A LAMPIRE TEAM MEMBER

**> 37%**  
HAVE WORKED 5+ YEARS  
AS A LAMPIRE TEAM MEMBER

**EXPERTS IN MULTIPLE  
SCIENTIFIC DISCIPLINES**