

Amerigo Scientific Releases Lectins Used for Physiological & Pathological Processes Conjugated or Unconjugated Available

Amerigo Scientific announced lectin products designed to accelerate studies of cellular recognition, disease mechanisms, and therapeutic development.

NEW YORK, NY, UNITED STATES, August 30, 2025 /EINPresswire.com/ -- Amerigo Scientific, a life science supplier focused on providing critical products and services to biomedical and pharmaceutical communities, announced its expanded lectin products designed to accelerate studies of cellular recognition, disease mechanisms, and therapeutic development. The portfolio includes both conjugated (fluorescent, biotinylated) and unconjugated [lectins](#), providing researchers with unparalleled flexibility for diverse experimental needs in physiological and pathological processes.

Lectins—natural proteins or glycoproteins that bind specific carbohydrate structures—serve as critical probes for decoding cellular communication, pathogen-host interactions, and disease biomarkers. [Amerigo Scientific's lectins](#) are sourced from plants, fungi, and legumes, each rigorously validated for specificity and activity. Key applications include:

- Cell surface mapping: Visualize glycoconjugates in cancer, immune, and stem cells.
- Pathogen detection: Identify microbial surface glycans for infectious disease research.
- Drug delivery systems: Leverage lectin-carbohydrate interactions for targeted therapies.

Product Highlights: Conjugated vs. Unconjugated Formats

Product Type: Unconjugated Lectins

Key Features: High-purity, native proteins; customizable for user-defined conjugation

Research Applications: Glycoprotein purification, affinity chromatography

Product Type: Fluorescein-Labeled

Key Features: Immediate use in live-cell imaging; excitation/emission optimized for microscopy

Research Applications: Real-time tracking of cell surface dynamics

Product Type: Biotinylated

Key Features: Compatible with streptavidin-based amplification; ideal for blotting/ELISAs

Research Applications: High-sensitivity biomarker detection

Driving Innovations in Disease Research

Amerigo Scientific's lectins enable cutting-edge investigations into pathological mechanisms:

- Liver Diseases: Conjugated lectins detect aberrant glycosylation in cholestasis and hepatitis, complementing bilirubin metabolism studies
- Oncology: Fungal lectins (e.g., *Ganoderma lucidum*) demonstrate tumor-selective cytotoxicity by inducing cancer cell apoptosis.
- Immunotherapy: Lectins like *Agaricus bisporus* enhance dendritic cell maturation, supporting vaccine development.

"Our lectins are lyophilized or liquid formats with detailed storage protocols to ensure stability and quality," said the business development manager at Amerigo Scientific. "By offering conjugated and unconjugated lectins, we empower researchers to dissect carbohydrate-driven processes in cancer, infection, and genetic disorders—with speed and reproducibility."

About Amerigo Scientific

Amerigo Scientific, as a recognized distributor in the United States, collaborates closely with leading manufacturers worldwide and invites cooperation from all companies and institutions in the area of reagents, kits, antibodies, and many other products for life science, biochemistry, and biotechnology. Its professional team is equipped with excellent technical support and thoughtful customer service. As most of its employees have earned a graduate (Ph.D. or M.S.) degree in life science, they can comprehend customers' questions or concerns and are always ready to provide individualized customer service of high standards.

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