

# LATOXAN

## LABORATORY

— Natural Active Ingredients —





LATOXAN produces and sells **Natural Active Ingredients** aimed at Pharmaceuticals, Animal Health, Cosmetics, Food and Feed Supplements, Plant Care and Life Science Research.

Venoms are produced in our own facilities, following strict protocols and procedures.

Collaboration with several Research teams have enabled LATOXAN to build a catalog of unique venom peptides and fractions.

Plant extracts and small molecules come from an exclusive partnership with a foreign Institute dedicated to Plant Biochemistry and Pharmacology.

LATOXAN is also involved in Drug Discovery Research projects on antimicrobials, pain-killing, hematology, cancerology, dermatology.

OUR VENOM  
PEPTIDES  
AND PLANT  
MOLECULES  
HAVE A PURITY  
 $\geq 95\%$



## VENOMOUS ANIMALS FARMING

Our animals come from **breeding or are captured from the wild with all due local and international authorizations**. They are kept productive for several years.

Each production batch of venom is fully traceable with information about animals and detailed farming and venom processing parameters. LATOXAN provides upon demand certificate of analysis and traceability, certificate of origin, certificate of species identity, health veterinary certificate and a Venom Production Master File (for pharmaceutical industry).

**venom**  
W O R L D



### KNOW-HOW

- VENOMOUS ANIMALS FARMING
- BREEDING
- MILKING
- CAPTURE
- ENDANGERED SPECIES CONSERVATION
- COMPLIANCE WITH WHO GUIDELINES
- PRODUCTION AUDITED BY PHARMA COMPANIES







As early as 1982 LATOXAN® pioneered in the production of venoms within its facilities based in France and progressively developed a unique know-how for sourcing, farming, breeding and milking over **300 species of snakes, scorpions and batrachians** from all over the world. In 2015 Latoxan helped in the creation of Venom World, a spin-off, where all its animals are bred and milked today.

## VENOM PEPTIDES & TOXINS

Latoxan offers a range of venom peptides and venom toxins purified from its own venoms. Their purity is ranging from 95 to 98%. They are 3-finger toxins, proteases, phospholipases, ion-channels modulators...

They find applications as **tools in Research protocols**, in the diagnostic of **blood coagulation** troubles, etc. and are investigated in **drug discovery screening programs**.



### KNOW-HOW

- PEPTIDE EXTRACTION FROM VENOMS
- HIGH-GRADE PURIFICATION
- PEPTIDE SYNTHESIS
- A UNIQUE CATALOG



### OUR CUSTOMERS

- LIFE SCIENCES
- PHARMACEUTICAL RESEARCH
- PHARMACEUTICAL INDUSTRY
- UNIVERSITY LABS

## PURE VENOMS

LATOXAN's venom production process fully complies with the WHO "Guidelines on Production, Control and Regulation of Snake Antivenom Immunoglobulins".

Venoms are taken from animals kept in our facilities or from animals captured in the wild and released in good health at the place of their capture after milking (toads, scorpions).

Our facilities comply with European regulation and our staff is duly trained to operate in safety conditions and in line with good animal welfare practice.

All animals are clearly identified and LATOXAN keeps individual records of all data pertaining to their origin, health status and treatments, feeding and milking status, offering full traceability to customers.



### KNOW-HOW

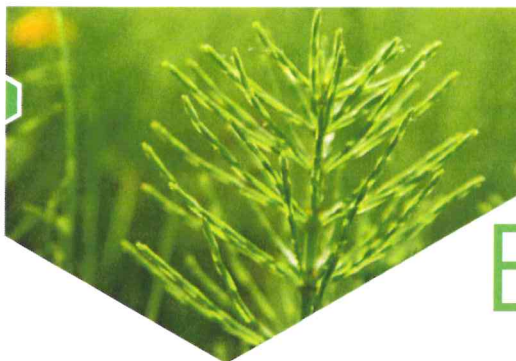
- SNAKE VENOMS
- SCORPION VENOMS
- BATRACHIAN VENOMS
- SPIDER VENOMS
- INSECT VENOMS



### OUR CUSTOMERS

- ANTIVENOM MANUFACTURERS
- LIFE SCIENCES RESEARCH
- PHARMACEUTICAL INDUSTRY





Biotoxan®, our range of plant products, offers a variety of pure molecules and unique plant extracts all processed from plants collected from the wild and endemic to the Central Asian steppe and mountains where **Latoxan has developed an exclusive partnership with an Institute dedicated to the valorization of local endemic plants.** Plants harvest is duly controlled and authorized by local authorities.

## PLANT EXTRACTS

Biotoxan's plant extracts are blends of active compounds, elaborated for specific applications in various fields : skin care, food supplements, animal health and nutrition, biostimulants, crop sciences.

They have known pharmacology and toxicology. They can also be adjusted to the specific needs of our customers.



### KNOW-HOW



TARGETED PLANT EXTRACTS



### OUR CUSTOMERS



COSMETICS



FOOD SUPPLEMENTS



ANIMAL HEALTH AND NUTRITION



CROP SCIENCES



BIOSTIMULANTS



HEALTH INGREDIENTS

## PLANT MOLECULES

Biotoxan's catalog includes 150 plant molecules with **95-99% purity.** Most have been discovered and characterized by our partner.

These molecules find applications as **tools in Research protocols** and are investigated in Discovery screening programs for pharmaceuticals and cosmetics.



### KNOW-HOW



150 EXCLUSIVE PLANT MOLECULES



TOP-GRADE PURIFICATION



### OUR CUSTOMERS



LIFE SCIENCES



ACADEMIC RESEARCH



PHARMACEUTICAL RESEARCH



PHARMACEUTICAL INDUSTRY

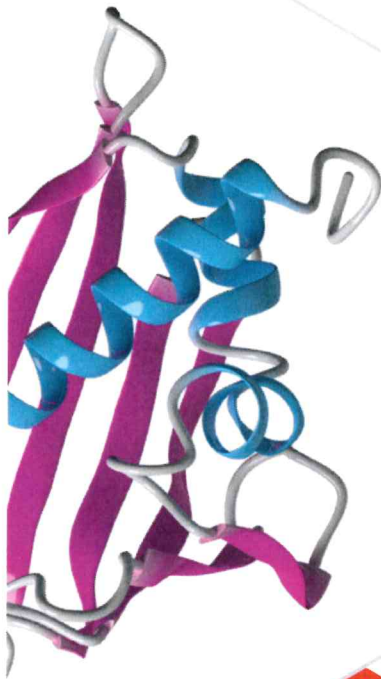






# Peptoxan

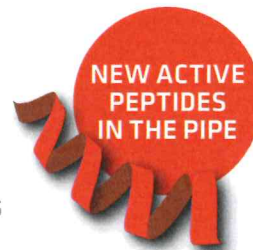
ACTIVE PEPTIDES DISCOVERY **FOR LIFE SCIENCES**



Venoms are a unique and inexhaustible source of High Therapeutic Potential Peptides selected by Nature over hundreds of millions of years.

Through Peptoxan®, Latoxan Laboratory runs its own drug discovery research program by screening its own venoms on targets in following domains :

- ANTIMICROBIAL
- PAIN-KILLING
- ANTICANCER
- NATURAL INSECTICIDES



**WITH PEPTOXAN®, LATOXAN LABORATORY PROVIDES PHARMACEUTICAL AND PLANT CARE INDUSTRY WITH EXCLUSIVE OPTIMIZED AND PATENTED PEPTIDE LEADS.**

# Kitoxan

CUSTOM SOLUTIONS **FOR LIFE SCIENCES**

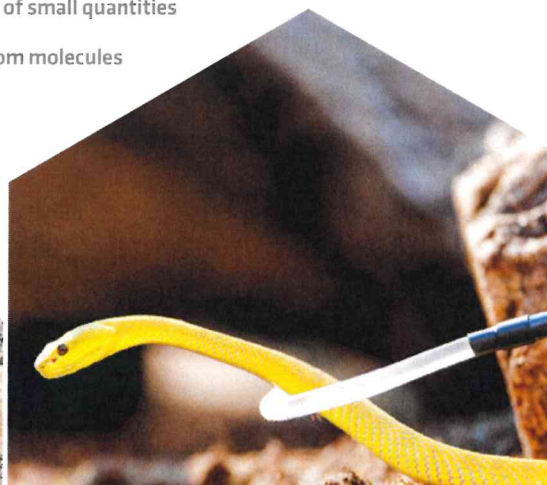


**KITOXAN® OFFERS CUSTOM SERVICES IN LINK WITH LATOXAN'S WELL-ESTABLISHED FIELDS OF EXPERTISE :**

## ● HIT-TO-LEAD SERVICES

- Venom fractionation
- Isolation and purification of specific venom molecules upon demand
- Peptide characterization
- Peptide sequencing and synthesis of small quantities
- Hit deconvolution process for venom molecules
- Custom-made screening libraries

## ● WORLDWIDE VENOMOUS ANIMALS CAPTURE MISSIONS





LATOXAN  
LABORATORY  
— Natural Active Ingredients —

OUR REFERENCES



Distributed by:



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