

PRODUCT DESCRIPTION

The result of over three years of extensive clinical research & development, **Flu-X[®]** is a highly effective, 100% natural, herbal, patented Over-the-Counter (OTC) anti-flu and anti-cold oral and nasal spray. **Flu-X[®]** has been clinically demonstrated to inhibit influenza and other viruses from attaching to the hemagglutinin and neuraminidase receptors located in the nose and throat, thus inhibiting the contraction of upper respiratory tract infections such as influenza and the common cold.

Originally developed as an anti-SARS CoV drug during China's SARS epidemic in 2003, and found to have been an effective support system in reducing the contraction of SARS CoV, and also in the management of SARS-CoV and trusted by patients globally for almost two decades.

Flu-X[®] has been demonstrated in several clinical trials, including four human trials, to be able to:

- As an oral and nasal spray, it acts at the point of entry of the respiratory tract where viruses attach to receptors, and is able to reduce the risk of contracting influenza and the common cold.
- Kill on contact influenza A & B viruses and the common cold coronavirus, thus preventing their replication in the respiratory tract.
- Inhibit the replication of the SARS CoV coronavirus by exerting antiviral and anti-inflammatory activity affecting SARS CoV.
- In clinical tests, **Flu-X[®]** has been shown to inhibit H. influenzae, Staphylococcus aureus and A- β -hemolytic streptococcus bacteria strains associated with secondary flu-related bacterial infections.

INDICATIONS

Flu-X[®] antiviral spray is indicated to inhibit influenza and the common cold, and also to reduce the progression after contraction by inhibiting the replication of both A and B influenza viruses and common cold viruses. In this way, it can relieve and reduce the severity of influenza and the common cold, and accelerate recovery. The herbal ingredients in **Flu-X[®]** also have the function of supporting the body's immune system.

HOW IT WORKS

Flu-X[®] spray disperses into the upper respiratory tract, through the nose and throat, where the virus typically enters our bodies. **Flu-X[®]** prevents the virus from attaching to receptors in the upper respiratory tract thus preventing the contraction of flu and colds. Additionally, **Flu-X[®]** stimulates the body's immune system and prevents the replication of the virus and shortens the life cycle of the virus. If you have a cold or flu, **Flu-X[®]** can reduce the duration and severity of symptoms. Used regularly or at the first sign of symptoms, Flu-X[®] can reduce the likelihood of contracting the virus.

REGULATORY APPROVALS

A Product License Application (PLA) for **Flu-X[®]** has been submitted to Health Canada and is awaiting approval to be marketed under the Natural Health Products Regulations.

PHYSICAL CHARACTERISTICS

A solution of herbs, light brown in color and bear the natural taste of the herbal ingredients.

PRODUCT INGREDIENTS

A proprietary formulation of standardized herbal extracts of:

Fructus jujubae, Lignum santali albi, Rhizoma chuanxiong, Radix glycyrrhizae and Rhizoma atractylodes, in purified water.

RECOMMENDED USE

For Adults: Position the spray nozzle and gently insert the tip into the nose and apply **two pumps** in each nostril, then gently position the spray nozzle tip into the mouth and repeat with **two pumps** to the back of the throat. Repeat this three times per day for up to seven days.

Children over 6 Years: Position the spray nozzle and gently insert the tip into the nose and apply **one pump** in each nostril, then gently position the nozzle tip in the mouth and repeat with **one pump** to the back of the throat. Repeat this three times per day for up to seven days.

- Not Recommended for Children Under 6 Years Old
- If Cold or Flu symptoms persist beyond seven days, please consult your physician.

CAUTIONS AND WARNING

If you are taking prescription medications, have a serious condition, suffer from allergies, or are pregnant, breastfeeding or lactating, please consult a health care practitioner prior to use.

SIDE EFFECTS OF FLU-X[®]

Based on all the clinical studies and trials conducted on the product there are no known side effects of **Flu-X[®]**.

SHELF LIFE AND STORAGE

Flu-X[®] should be stored in a cool dry place and has a shelf life of two years when sealed. Once opened, it should be refrigerated and can be used within one year of expiry. If stored unrefrigerated, **Flu-X[®]** should be used within seven days of opening the seal for best results.

FLU-X[®] DEVELOPMENT

Flu-X[®] is a highly effective herbal, oral, antiviral spray that can be used against influenza and the common cold. It was first developed by Professor D.S. Liu, Ph.D., one of China's most eminent and respected virologists and medical doctors. It was developed as an anti-SARS-CoV coronavirus drug, to prevent & treat the Severe Acute Respiratory Syndrome coronavirus (SARS-CoV) outbreak during China's SARS Coronavirus epidemic in 2002/2003.

Owing to its highly safe and effective antiviral properties and its success in preventing SARS-CoV infection and in treating coronavirus-infected patients at several hospitals in China, the original drug was repurposed and rebranded as **Flu-X[®]** and has been sold in Canada, US, UK and China for the past five years.

WHO COULD TAKE FLU-X[®] AS A SUPPLEMENT?

Flu-X[®] could be taken by any person who experiences the initial signs and symptoms of influenza or the common cold. It could also be taken by those who have been in contact with any person who has contracted influenza, the common cold, or other upper respiratory tract infection. **Flu-X[®]** relieves the viral symptoms and reduces the severity and duration of influenza and the common cold.

Flu-X[®] supports the immune system and can also be taken by any person who wishes to prevent contracting influenza or the common cold.

FLU-X[®] SCIENTIFIC EVIDENCE AND CLINICAL TRIALS

Flu-X[®] has undergone numerous scientific studies and animal and human clinical trials including double-blind placebo-controlled clinical trials, the results of which demonstrate that **Flu-X[®]** kills both the Influenza A and B viruses and common cold coronavirus on contact, thus preventing the contraction of these viruses.

A double-blind, randomized placebo-controlled clinical trial of 153 patients with viral upper respiratory tract infection demonstrated a recovery rate of 82.9% in the **Flu-X[®]** group compared to 19.6% in the placebo control group. Further, comparative in-vivo studies on mice confirm the product's superiority to Interferon (a leading antiviral pharmaceutical) in their antiviral defense against the influenza virus, with the **Flu-X[®]** group offering a protection rate of 55% as against 40% for the interferon group.

In clinical tests, **Flu-X[®]** has been shown to inhibit H. influenzae, Staphylococcus aureus and A-β-hemolytic streptococcus bacteria strains associated with secondary flu-related bacterial infections.

Three human clinical trials conducted on **Flu-X[®]** at several hospitals confirm that **Flu-X[®]** lessens the transmission of Severe Acute Respiratory Syndrome (SARS) and improves Quality of Life. The trials also confirm that **Flu-X[®]** significantly inhibits SARS-CoV virus replication, affects virus morphology, and exerts anti-inflammatory activity against the SARS-CoV virus.

Reduction

- Duration of influenza was reduced to 3 symptom days compared to 6 symptom days
- Both incidence and duration of the influenza virus A and B were significantly reduced with Flu-X[®].

Improvement

- Increase in the rate of recovery to 91.5% by day three versus 11.3%

All represent a significant therapeutic response.

BENEFITS OF TAKING FLU-X[®] AS COMPARED TO OTHER NATURAL SUPPLEMENTS

Antiviral studies conducted on **Flu-X[®]** have demonstrated that, unlike existing natural OTC cold and flu products, which gradually stimulate the human immune system over a period of time, **Flu-X[®]**'s therapeutic mechanism of action resides in the fact that it is both a hemagglutinin and neuraminidase inhibitor.

Hemagglutinin and neuraminidase are two large glycoprotein spikes on the surface of influenza viral particles and refer to the H and N designations assigned to the different influenza strains, i.e., H5N1, H1N1, etc. This means that **Flu-X[®]** inhibits the two large glycoproteins on the surface of the influenza viral particles thus physically blocking the virus from attaching to the epithelial cells of the respiratory tract, thereby inhibiting the contraction of the influenza virus and also the replication of the virus in the human host cell. In this way, **Flu-X[®]** is able to inhibit the contraction of the virus in the respiratory tract, and it continues to have an effect in the bloodstream, where it prevents the replication of the influenza virus. **Flu-X[®]** has been developed using five natural herbal extract ingredients and has been specifically formulated to help stimulate the human immune system.

HOW IS FLU-X[®] TESTED TO ENSURE ITS SAFETY

Long- and short-term clinical toxicology studies conducted on the product confirm **Flu-X[®]** to be safe even at 400 times the recommended human dosage. Additionally, the product has been used by over 10,000 patients and has been shown to be safe and highly effective in the prevention and treatment of influenza, by killing and preventing the replication of the Influenza A & B viruses.

FLU-X[®] DEVELOPMENT BACKGROUND

The product developed by Professor D.S. Liu, one of China's most eminent and respectable virologists and medical doctors, was originally developed as an anti-SARS virus drug during China's SARS epidemic in 2003. It was successfully used to treat SARS patients at several hospitals in China. Professor D. S. Liu, Ph.D. has over 40 years' experience in molecular biology and virology and graduated as a physician from China's prestigious China Medical University. He completed his post-graduate degree at the China Academy of Medical Sciences under the supervision of Professor Zhu Jiming, the scientist who isolated the first Asian influenza strain in the world, in the 1950s. Professor D.S. Liu worked extensively as a virologist with projects for the World Health Organization (WHO), Royal Postgraduate Medical School (RPMS) U.K., Wellcome Research Laboratories, U.K., and Peninsular Laboratory Inc., in the USA. He was awarded the "National Special Contribution Scientist Award" by the State Council of China and is a member of the editorial committee of "China Biological Products Journal" and "China Immunology Journal". He is also a Scientific Advisor for anti-cancer drug development at Swiss Debiopharm Research Foundation.

FLU-X[®] STUDIES ON COVID-19

The similarities between SARS-CoV coronavirus (in SARS) and SARS-CoV-2 coronavirus (COVID-19) are striking, not only in name. The whole genome of SARS-CoV-2 has 86% points of similarity with SARS-CoV. Both viruses share high degrees of homology to SARS-like coronaviruses isolated in bats, supporting the hypothesis that bats are a probable vector and possibly the origin of both SARS-CoV and SARS-CoV-2. In terms of disease dynamics, there are apparent similarities. The main transmission route is thought to be via respiratory droplets, although viral shedding via feces has also been reported for both viruses, and the angiotensin-converting enzyme 2 (ACE2), found in the lower respiratory tract of humans, has been identified as the receptor used for cell entry for both SARS-CoV and SARS-CoV-2. Despite the striking similarities between SARS and COVID-19 diseases, the differences in the virus characteristics will ultimately determine whether the same measures used to manage SARS, including **Flu-X[®]**, will also be successful for COVID-19, which differs from SARS in terms of infectious period, transmissibility, clinical severity, and extent of community spread.

RISK INFORMATION

These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease. If you are taking prescription medications, have a serious condition, suffer from allergies, or are pregnant, breastfeeding or lactating, please consult a health care practitioner prior to use. Do not disregard professional medical advice or delay in seeking it because of something you have read on this document.

MANUFACTURING

Flu-X[®] is manufactured in sterile conditions at a certified GMP pharmaceuticals factory, in strict accordance with established pharmaceutical Good Manufacturing Practices.

GENIX PHARMACEUTICAL CORPORATION

GENIX Pharmaceuticals Corporation is an innovative Canadian life sciences company focused on the research, development, manufacture and sales of novel & innovative healthcare products - proprietary over-the-counter (OTC) nutraceuticals and generic pharmaceuticals that have been shown to deliver consistent and verifiable results in a broad range of therapeutic areas. The Company deploys a pharmaceutical model for product development and selection including rigorous active ingredient discovery and clinical testing for all its nutraceutical and pharmaceutical products. Since our inception in 1996, we have been involved in the manufacturing and marketing of both nutraceutical and pharmaceutical products. The Company intends to continue developing novel and innovative products for sales through traditional retail outlets and as well as direct to consumers and e-commerce platforms, in keeping with the evolving nature of the healthcare industry towards Integrative Medicine and Health (IMH) and Complementary and Alternative Medicine (CAM). GENIX intends to market its products in Canada, the USA, China, S.E. Asia, the United Kingdom and other selected countries.