

Frequently Asked Questions

WHAT ARE TRANSFER FACTORS?

Transfer factors are tiny natural molecules found in all mammals and birds in the body that transfer critical immune information to our cells. They work across species barriers—from animal to person or animal to animal—to give the naive immune system the knowledge it needs.

HOW DO TRANSFER FACTORS WORK?

Transfer factors educate your naive immune system about a present or potential danger and equip it with a plan for action. Although the most notable function of these smart molecules is to speed up the recognition of a threat, making the duration of an illness shorter, they also support the immune system's ability to remember past invasions, allowing your body to more quickly respond to similar health threats. In addition, transfer factors can balance the immune system by suppressing it when it's overactive, for example with an autoimmune disorder.

HOW WERE TRANSFER FACTORS DISCOVERED?

In 1949, Dr. H. Sherwood Lawrence determined that an immune response could be transferred from a donor to a recipient through a white blood cell extract. He concluded that the extract contained a factor capable of transferring the donor's immunity information to the recipient and named the substance transfer factor.

WHAT PROMPTED SCIENTISTS TO LOOK FOR TRANSFER FACTORS IN EGGS AND COLOSTRUM?

It was first noticed that when newborn cows didn't or couldn't nurse, they often quickly died. Infection, and not starvation, was usually the cause. Researchers realized that the mother was passing immunity information to the calf after birth and that the only means could be transfer factors in her milk. It was then realized that birds must have a similar mechanism for passing immunity on to their own young.

WHAT ARE THE ADVANTAGES OF USING CHICKEN EGGS OR COW COLOSTRUM AS A SOURCE OF TRANSFER FACTORS?

Both chickens and cows live mainly outside, where they eat off the ground, drink from shared water sources, endure varying weather conditions and contend with the challenges of communal living. This leaves them exposed to a variety of germs, bacteria and viruses, which their immune systems must battle and then remember in order for them to stay healthy. It's the heroic nature of their immune systems, needed for survival that makes them ideal donors for transfer factors. Because transfer factors can be shared safely and effectively from human to human, chicken to human or cow to human, either source alone offers excellent immune support. Combined, they offer the broadest range of immune support available.

WHICH SOURCE OF TRANSFER FACTORS DOES 4LIFE USE IN ITS PRODUCTS?

4Life uses both the cow and chicken to obtain transfer factors that provide a wide range of immune support. For targeted support, 4Life uses egg sources specially farmed to benefit specific body systems. 4Life licenses the cow colostrum patent. And 4Life pioneered extracting transfer factors from chicken eggs and holds the patent and has patents pending on this source. 4Life has streamlined the extraction processes, which concentrate the power of transfer factors in unique and innovative supplements that help strengthen the immune system.

Transfer Factor E-XF™—4Life Transfer Factor Plus® Advanced Formula and other 4Life Transfer Factor Advanced Formula products are made from 4Life's proprietary scientifically proven Transfer Factor E-XF blend. Developed exclusively by 4Life using patented and patent-pending technology, the blend combines the immune knowledge of two sources to deliver the benefits of transfer factors from both cow colostrum and chicken eggs to offer the broadest range of immune knowledge possible.

4Life Targeted Transfer Factor®—4Life's line of Targeted Transfer Factor products is part of a revolutionary support system. Scientifically researched and developed by 4Life, they target the power of transfer factors extracted from eggs specially farmed to benefit specific body systems.

ARE THERE ANY DIFFERENCES BETWEEN DRIED EGG YOLK OR COW COLOSTRUM AND 4LIFE TRANSFER FACTOR PRODUCTS?

Unlike dried egg yolk or cow colostrum, 4Life's Transfer Factor E-XF contains concentrated transfer factors. Through patented processes, 4Life separates transfer factors from the other components in egg yolks and cow colostrum to capture a broader range of immune-enhancing transfer factors. Dried eggs or cow colostrum alone may contain only small amounts of actual transfer factors along with other compounds. In addition, Transfer Factor E-XF goes through a special stabilization process to protect their effectiveness.

ARE TRANSFER FACTORS SAFE?

Transfer factors are a natural molecule and have been safely used in supplement form for many years. Throughout the history of transfer factors use, there have been no reports of serious adverse reactions, even when clinically administered in excess or with normal doses given over many years.

IS THERE SCIENTIFIC PROOF THAT TRANSFER FACTORS ARE EFFECTIVE?

In the 50 years since Dr. Lawrence's pioneering work on transfer factors, an estimated \$40 million has been spent on scientific research and hundreds of scientific papers written that document its effectiveness. Several independent books have also been authored. Independent studies have also shown the ability of 4Life Transfer Factor products to increase immune system effectiveness.¹

IS THERE SPECIFIC SCIENTIFIC PROOF OF THE EFFECTIVENESS OF 4LIFE TRANSFER FACTOR PRODUCTS?

Yes. Studies conducted by the Russian Academy of Medical Science show that 4Life Transfer Factor Advanced Formula boosts immune activity by 283 percent* and 4Life Transfer Factor Plus Advanced Formula boosts it 437 percent*! The study compared 4Life Transfer Factor products to individual herbs and ingredients known to improve immune response such as noni, dry cow colostrum, echinacea and others. An earlier study showed that 4Life Transfer Factor Classic boosted NK cell activity 103 percent.

WHO BENEFITS FROM TAKING 4LIFE TRANSFER FACTOR PRODUCTS?

Everyone who needs an extra immune boost, needs to suppress an overactive immune system or who simply wants to maintain their everyday health benefits from taking 4Life Transfer Factor products.

WILL TRANSFER FACTORS SURVIVE IN MY STOMACH?

Unlike the antibodies and proteins found in egg yolks and colostrum alone, transfer factors readily survive the digestion process and are easily absorbed. Stomach acids and digestive enzymes won't degrade their potency.

CAN PEOPLE WITH ALLERGIES OR LACTOSE INTOLERANCE USE 4LIFE TRANSFER FACTOR PRODUCTS?

Yes. Transfer factors themselves are non-allergenic. 4Life's extraction process avoids or removes common allergens in egg and colostrum sources. Any remaining lactose in colostrum-derived transfer factors is far below the amounts that typically cause reactions. (As precaution, people with allergies specifically to egg yolks, should check with their physician before taking 4Life Products with Transfer Factor E-XF or Targeted Transfer Factor.)

CAN INFANTS AND CHILDREN SAFELY TAKE 4LIFE TRANSFER FACTOR PRODUCTS?

4Life Transfer Factor products that contain only transfer factors are safe for infants and children up to 18 years of age. Transfer factors were, in fact, designed by nature for newborns. 4Life offers 4Life Transfer Factor Kids® just for children, which combines the power of Transfer Factor XF with 22 essential vitamins and minerals in tasty, chewable tablets that provide the immune and nutritional support that growing kids need.

WHY SHOULD I TAKE TRANSFER FACTORS IF I WAS BREASTFED AS AN INFANT?

The transfer factors you received as an infant helped educate and strengthen your naive immune system. But, immune cells regularly die and are replaced, so the ongoing protection from transfer factors lasts only a short time. Because today, more than ever, we're exposed to new immune challenges, regularly taking transfer factors to strengthen your immune system is critical to your health.

HOW OFTEN SHOULD I TAKE 4LIFE TRANSFER FACTOR PRODUCTS?

Our bodies create new immune cells almost every day, which need instruction. To meet this need, 4Life Transfer Factor products should be used daily to give the immune system the continual support it needs to recognize and respond to new and emerging health threats. 4Life Transfer Factor Plus Advanced Formula, 4Life Transfer Factor Advanced Formula and 4Life Transfer Factor Classic can safely be combined with Targeted Transfer Factor products to optimize overall immunity as well to target specific systems.

ARE THERE PRODUCTS AVAILABLE FOR THOSE WHO PREFER NOT TO SWALLOW PILLS?

4Life offers both a chewable version of 4Life Transfer Factor as well as chewable 4Life TF Kids™. 4Life also offers 4Life Transfer Factor Immune Spray, a great-tasting throat spray that combines the antibacterial properties of colloidal silver with the power of Transfer Factor XF. 4Life Transfer Factor capsules are also easily opened and the contents mixed with formula, pureed foods or drinks.

1 Test results obtained by a blind study conducted by Dr. Anatoli Vorobiev and his team at the Russian Academy of Medical Science. Cancer containing cells were subjected to cytotoxicity testing. Samples containing 4Life Transfer Factor from cow and egg sources were tested individually and in blended forms for incubation periods of 24 and 48 hours to determine the most beneficial combination and activation time.

These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure or prevent any disease.