

# FAQ



## Frequently Asked Questions

### **Q1: What is EgCel® Technology?**

**A1:** EgCel is a proprietary, egg-based technology from Arkion® Life Sciences, LLC. Products with EgCel technology provide a blanket of specific IgY antibodies derived from today's most significant pathogens and help to maintain a healthy gut for increased nutrient intake and reduced inflammation in livestock and companion animals.

### **Q2: What are markets and brands under which EgCel Technology can be found?**

**A2:** Arkion Life Sciences, LLC sells EggTek® to aid passive immunity in livestock. EggTek is developed and marketed to best utilize its unique multi-valent properties, providing a blanket of IgY to enable a complex of antibodies to help maintain a healthy gut, increase nutrient uptake and reduce inflammation in animals. EggTek® is formulated to provide specific IgY antibodies derived from today's most significant pathogens:

#### **EggTek-C (Calf)**

EggTek-C is fed to calves in milk replacer pre-weaning. The IgY pathogen infrastructure of EggTek-C today includes (but not limited to):

- *E. coli*: K99, K88, 987P, F41P
- Rotavirus: G6, G8, G10
- Coronavirus
- *Cryptosporidium parvum*
- *Clostridium perfringens*: Types A, C, D
- *Salmonella*: Typhimurium, Newport, Dublin, Heidelberg
- Bovine Viral Diarrhea Type 1 and 2

EggTek-C has been shown to decrease morbidity and mortality in calves while reducing the number of days with scours and saving costs through less need of medical interventions.<sup>1</sup>

#### **EggTek-S (Swine)**

EggTek-S is fed to nursery pigs. The IgY pathogen infrastructure of EggTek-S today includes (but not limited to):

- *Salmonella*: Cholerasuis, Typhimurium, Heidelberg
- *E. coli*: K99, K88, 987P, F41P, F18
- Porcine Epidemic Diarrhea Virus (PEDV)
- Porcine Respiratory Coronavirus (PRCV)
- Porcine Rotavirus group A serotypes G4, G5, group C
- Transmissible Gastroenteritis (TGE)
- *Clostridium perfringens*: Type A, C, D
- *Cryptosporidium parvum*

#### **ActivEgg® (Companion Animal)**

ActivEgg® is EgCel technology focused on the anti-inflammatory properties of the product. In addition to immune support, ActivEgg promotes muscle and joint recovery in dogs. The quality egg protein supports:

- Healthy joints and tendons
- Increased mobility
- Enhanced energy and stamina
- Faster muscle recovery
- Improved digestion
- Radiant skin and coat



# FAQ



## Frequently Asked Questions

**Q3: What is IgY?**

**A3:** IgY is the avian equivalent to IgG in mammals.

**Q4: How is EgCel® made?**

**A4:** The production process for EgCel is proprietary. In general, we vaccinate hens with a specific multivalent vaccine cocktail, boost them at specific times, collect, break and pasteurize the eggs, then dry them into a powder. Our product is certified by the USDA as food grade and safe.

**Q5: How do EgCel products EggTek®-C and EggTek-S work?**

**A5:** When introduced orally, the IgY antibodies bind to corresponding pathogens within the gastrointestinal tract and then the antigen-antibody complexes are excreted out of the body along with the excrement.

**Q6: How is the EgCel product “ActivEgg®” different from EggTek-C and EggTek-S?**

**A6:** ActivEgg is our product specifically formulated and tested for companion animals for support of healthy joints and mobility.

**Q7: How are EgCel products different from other feed additive/supplements on the market today?**

**A7:** The unique, proprietary process used by Arkion® Life Sciences allows our egg powder products to have high titers of multiple antibodies to specific, key pathogens. Other IgY products have been shown to protect against a few pathogens and are produced differently, generally through blending. The multivalent properties of EgCel provides several advantages such as:

- Specific, multiple antibodies from the most relevant pathogens available today
- A complex of antibodies presented vs. one (broad-spectrum)
- Convenience of one product to stock and feed to address multiple pathogens and for optimal health
- Highly adaptable technology that can encompass product updates or address new pathogens in a matter of months
- A natural and quality protein source: Egg
- Food Grade
- Recognized as self-declared GRAS by the FDA

**Q8: Is IgY comparable to mammalian IgG passive transfer of immunity?**

**A8:** Yes. Mammals provide passive immunity by nursing their offspring over time until their own immune systems mature. Since avians cannot nurse, passive immunity is passed to offspring through the egg.

# FAQ



## Frequently Asked Questions

**Q9: Do the specific EgCel® antibodies cross the gastrointestinal lining?**

**A9:** No, IgY is not systemic. It stays in the gut and does not cross the intestinal lining. As such, continual feeding of IgY is needed to retain effect.

**Q10: How are EgCel products packaged?**

**A10:** EgCel products are currently packaged as 20kg in a sealed plastic bag and shipped in a 15.25" x 11" x 18.75" cardboard box.

**Q11: How many boxes of EgCel are on a pallet?**

**A11:** 40 boxes make up a pallet order.

**Q12: How do I order product?**

**A12:** Complete the EgCel Product Order Form or go to [EgCellgY.com](http://EgCellgY.com) for a 24/7 online ordering option.

**Q13: How long does it take to receive EgCel product from the date of order?**

**A13:** If the destination is within the US, it generally takes a week for our products to ship out. For a fee, we can ship overnight. This timing may vary depending on the shipper used, location, inventory, and time of year (holidays). International shipping normally requires additional product testing and paperwork and on average can take up to two weeks.

**Q14: Is EgCel for use on organic operations?**

**A14:** Currently, EgCel products are not certified for use on organic operations. Check with Arkion Life Sciences for future updates.

**Q15: Can you over-feed EgCel?**

**A15:** We have tested up to 20gms of product administered to young dairy calves fed per day over two weeks and have not seen any negative effects of doing so.

**Q16: Are there concerns with feeding EgCel cross-species?**

**A16:** No. The liquid egg is pasteurized before spray drying and undergoes a rigorous quality control screening, so no active pathogen is present. Additionally, there are currently no known diseases transmitted specifically through avian eggs to other species.

**Q17: How does EgCel dissolve in water?**

**A17:** EgCel is spray dried whole egg. Therefore, it is easily dispersible in water, however, there may be some solids left behind. It is for this reason that we do not recommend sending EgCel through water lines currently.

**Q18: How do you store EgCel products?**

**A18:** A closed container placed in a cool, dry location out of the sun and heat, is best.

# FAQ



## Frequently Asked Questions

**Q19: What is the shelf life of EgCel®?**

**A19:** Stored under ambient conditions, EgCel IgY efficacy is stable for up to 24 months. If stored under refrigerated conditions, the product can be stable for up to 5 years.

**Q20: What is the recommended temperature threshold for EgCel IgY?**

**A20:** The IgY in EgCel cannot survive temperatures above 158°F(70°C). As a safe threshold, EgCel products should not be heated over 120°F(48°C) to maintain maximum efficacy. If heating over 120°F(48°C) is required for a specific application, please contact Arkion for assistance on how best to handle the product.

These statements have not been evaluated by the Food & Drug Administration. This product is not intended to diagnose, treat or prevent any disease.



Arkion Life Sciences, LLC  
555 Mews Drive, Suite J  
New Castle, DE 19720  
800-444-2009  
www.egceligy.com



1Arkion data on file.

© 2024 Arkion Life Sciences, LLC EgCel, EggTek and ActivEgg are Arkion are registered trademarks of Arkion Life Sciences, LLC.  
EGCEL-0124-02