



Eggzamin



Sustainable solutions. Eggzamin.com

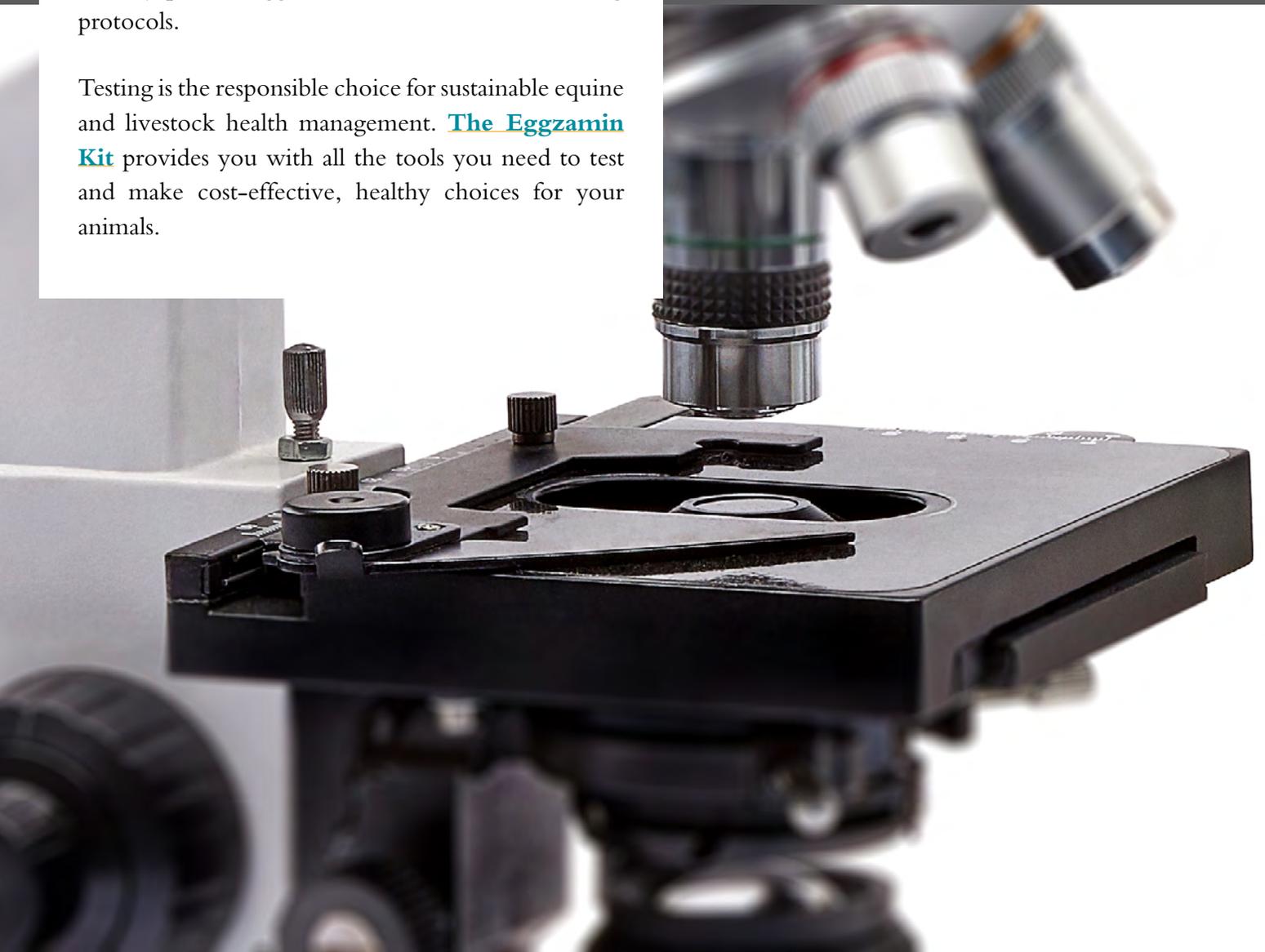
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We need to change the way we think about parasites and only deworm when needed.

THE EGGZAMIN KIT was designed to make the *Fecal Egg Count* process quick and easy. Our specialized kits provide everything you need to conduct unlimited McMaster Method *Fecal Egg Counts*. This common test used by veterinarians and labs all over the world will help you accurately identify parasite eggs to make educated deworming protocols.

Testing is the responsible choice for sustainable equine and livestock health management. The Eggzamin Kit provides you with all the tools you need to test and make cost-effective, healthy choices for your animals.





what is parasite resistance?

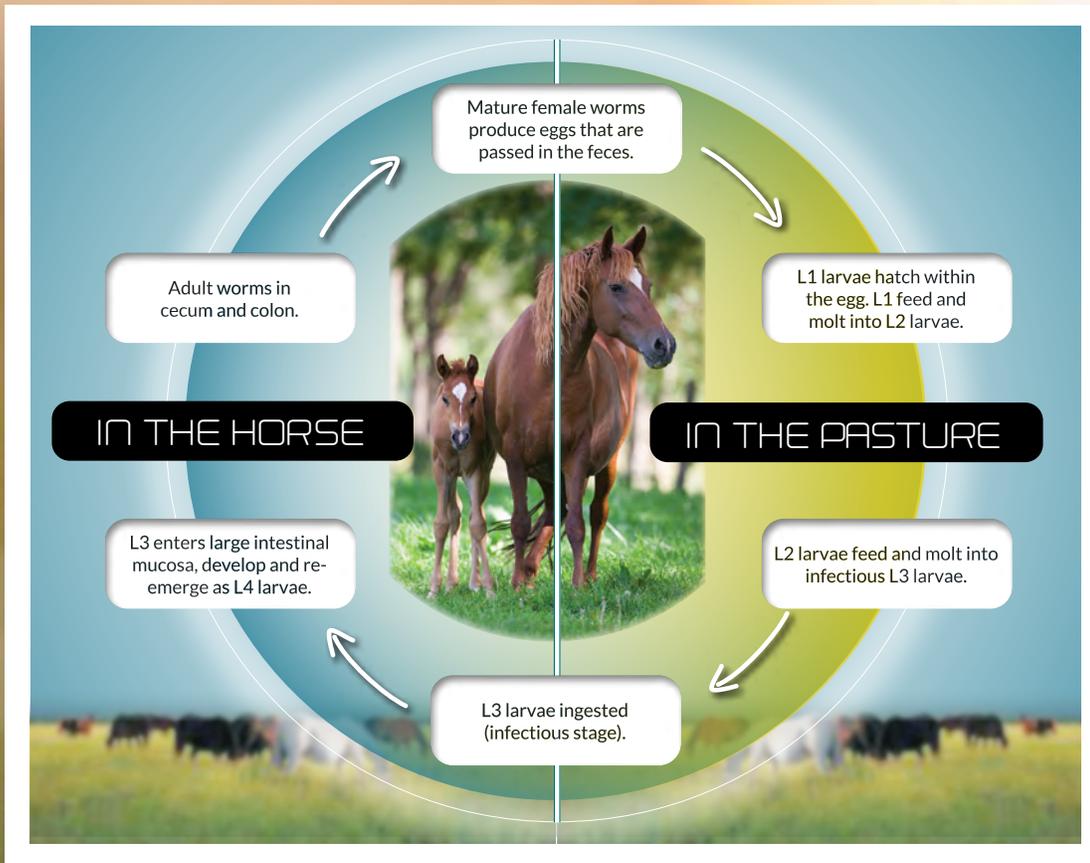
Resistance develops when the recommended dose of dewormer does not kill 100% of the parasites inhabiting an animal. This process of selection allows resistant survivors (those not killed by the dewormer) to mate with other resistant worms and subsequently pass resistant genes onto their offspring.

Resistance becomes a clinical problem when there are a high number of resistant worms within the treated population leading to treatment failure and clinical disease. The rate at which modification to the parasite gene pool occurs within a given population varies depending upon a number of factors including: the frequency of exposure to a particular class of anthelmintic, the immune status of the individual horse and the size of the parasite population in refugia (the population that has never be exposed to anthelmintics).

Wait. Don't I need my vet? YES!

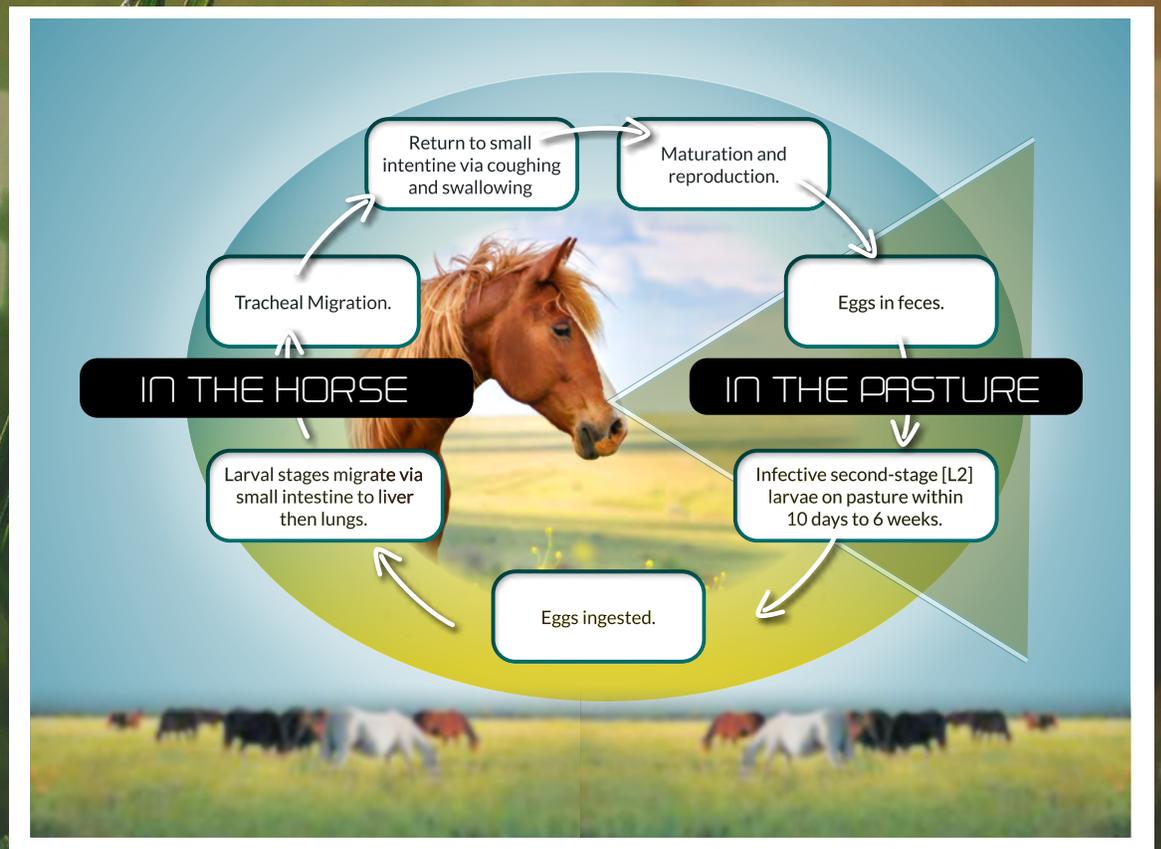
Our products are designed to be used in collaboration with your veterinarian. Frequent testing can help avoid over-dosing and blanket deworming, which contribute to parasite resistance. Our kit is tested and approved by leading veterinarians and equine health experts. *It gives you fast, accurate, on-site information at a low cost to share with your veterinarian.*

parasite life cycles



SMALL STRONGYLE LIFE CYCLE

ASCARID LIFE CYCLE





what do we do now?

1 Learn to Live with Parasites: “The presence of parasites is not inherently bad; in fact the immune system of the horse evolved in the presence of parasites. So parasitism is a natural state: it’s only when they adversely affect the horse’s health that they become a problem.” Craig R. Reinemyer, DVM, PhD.

2 Perform Fecal Egg Counts: Target your approach – [know if your horse has parasites](#), how many and what type before administering a dewormer. “I’ll hear people say that deworming is cheaper than a fecal egg count, but if you’re deworming with a product that no longer works on your farm, it’s just wasted money.” Ray Kaplan, DVM, PhD.

3 Focus on the Horses That Need it: It has been discovered that 20 percent of horses shed 80 percent of the parasite eggs (high shedders). These are the horses that contaminate the pasture and their deworming program should be modified accordingly. The only way to determine these “high shedders” is through a fecal egg count test as they usually don’t look “wormy” at all.

4 Practice Good Timing: “A huge number of variables come into play, including the time of year, the age of the horse and the horse’s shedding classification.” Craig R. Reinemyer, DVM, PhD.

“As a working baseline, I think that every well-managed horse will be dewormed with a macrocyclic lactone, like ivermectin or moxidectin, twice a year, at about six-month intervals. This recommendation is essentially to maintain or achieve eradication of large strongyles.” ~ Craig R. Reinemyer, DVM, PhD.

5 Target the Worm: “[Small strongyles](#), the leading parasite concern, can still be controlled with ivermectin or moxidectin. Tapeworms require a treatment of praziquantel. In younger horses, ascarids may be a concern. Anthelmintic resistance has been demonstrated in [ascarid](#) as well, so fecal egg count reduction testing should be implemented to identify which products are effective in your herd.” Craig R. Reinemyer, DVM, PhD.



partnering with your veterinarian

“Egg counts also allow managers to look at the farm as a whole. They can identify trends, especially regarding types of parasites on the farm, and treatment efficacy. By checking FEC a few weeks after giving anthelmintics, for example, known as running a fecal egg count reduction test, they can determine the percentage of survivors, as well as how long it takes for eggs to start showing up in the feces again—both of which indicate levels of resistance.”

—Christa Lesté-Lasserre, *The Horse* magazine

The goal of frequent FEC testing is not to eliminate your veterinarian's visits! On the contrary, the power of collaboration is the goal. The more accurate your assessment, the more targeted your treatment.

This is for the benefit of your farm as a whole, and for the environment at large, as well as your livestock.

Your vet is trained in management of equine parasites, epidemiology, risk factors, clinical signs of disease, parasite life cycles, effects of climate and environment, and the fight against anthelmintic resistance.

[Eggzamin's FEC Test Kit](#) can provide accurate, fast information in minutes, and over time, can give you a more precise picture of which animals are in need of intervention and which aren't.

general recommendations

Deworm horses shedding greater than 250 EPG before spring turnout and as needed during the grazing season based on post treatment FEC's.

Treat for tapeworms (with praziquantel) before going on pasture in the spring. If tapeworms are a big issue, another treatment can be done in the fall. Treat for bots after first freeze in the fall.

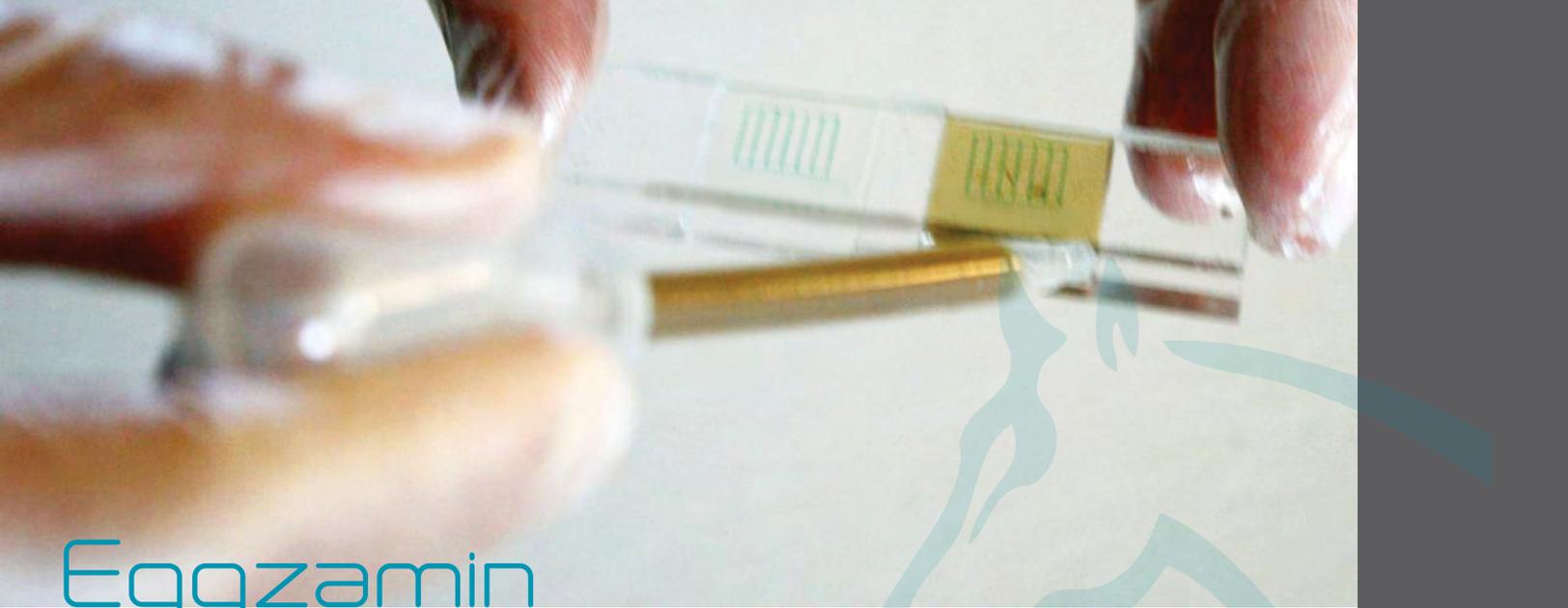
The concept of zero tolerance for small strongyles should be abandoned, as some degree of parasitism is necessary to stimulate an immune response.

Individual horses vary greatly in their susceptibility to internal parasites; some limit infection almost entirely even without deworming drugs, while others carry very high parasite loads even with regular deworming. Thus, we can also reduce anthelmintic use by only deworming the horses that really need it.

Anthelmintics are not the only control measures for internal parasites. For example, removing feces from the environment every few days ensures that infective larvae are hauled off in the wheelbarrow.

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“Host-parasite relationships have been going on for several hundreds of thousands of years, with continuous adaptation on both sides,” says Dr. Hubertus Hertzberg. And there’s nothing wrong with that, says Dr. Martin Nielsen. “Parasitism is a normal state,” he says. As Hertzberg explains, these host-parasite relationships are “never-ending competitions,” but they’re certainly not battles. “It’s not like there’s a winner and a loser at the end,” he says. “It can’t be the goal of a parasite to beat its host because that would mean his end, as well.”

—Christa Lesté-Lasserre, The Horse magazine

WHAT IF I DON'T KNOW HOW TO USE A MICROSCOPE?

The Eggzamin equipment has been designed for ease-of-use. Your kit comes with everything you need for *unlimited* FEC's, our clear How-To Instructions, a Microscope Users Manual to familiarize you with your equipment, and our website and images are available to help you learn to identify parasites.

DON'T YOU NEED A CENTRIFUGE FOR A FECAL EGG COUNT TEST?

We recognize that there is confusion around the sensitivity of the modified McMaster Method and the need for centrifugation. In companion animals like dogs and cats a centrifuge is necessary in the testing process because the presence of one parasite egg is enough to warrant treatment. However, grazing animals such as horses are different. It is recommended that only horses with egg counts over 250 eggs-per-gram be dewormed.

WHAT COMES WITH THE KIT AND WHAT DOES IT COST?

Visit our website for full details about the products we offer and everything you need to know to conduct your own Fecal Egg Counts. Join us, and leading veterinary scientists, in the fight against parasite resistance. Eggzamin.com