

**DETECTION OF *Toxoplasma gondii* INFECTION IN CATS DIARRHEA IN ANIMAL HOSPITALS AND PET CLINICS IN SURABAYA WITH MICROSCOPIC AND POLYMERASE CHAIN REACTION (PCR) METHOD**

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**ABSTRACT**

Toxoplasmosis is a zoonotic disease caused by *Toxoplasma gondii*. *Toxoplasma gondii* is a parasite which infects warm-blooded hosts, including humans. Cats and felidae are definitive hosts for *Toxoplasma gondii* which is in the body of the cat and felidae only can produce oocysts. There are several methods to diagnose toxoplasmosis. The purpose of this research is to know the prevalence of *Toxoplasma gondii* infection in animal hospitals and pet clinics in Surabaya. This research used 50 samples of diarrhea cat feces. Samples were examined using microscopic methods and *Polymerase Chain Reaction* (PCR). The primer used in this research is B1 primer. From 50 examined samples, 7 samples (14%) were positive for infection by *Toxoplasma gondii* using the microscopic method, and 2 samples (4%) were positive using *Polymerase Chain Reaction* (PCR) using B1 primer.

**Keywords:** Cats, *Toxoplasma gondii*, Microscopic, *Polymerase Chain Reaction* (PCR)