

ABSTRAK

DETEKSI *Toxoplasma gondii* PADA AYAM KAMPUNG YANG DIJUAL DI PASAR TRADISIONAL CONDONGCATUR DAN MAGUWOHARJO KAPANEWON DEPOK, KABUPATEN SLEMAN DENGAN METODE *POLYMERASE CHAIN REACTION*

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Toksoplasmosis adalah penyakit zoonosis yang disebabkan infeksi *Toxoplasma gondii*. Manusia berpotensi terinfeksi melalui makanan atau minuman terkontaminasi ookista yang telah bersporulasi. Penelitian ini bertujuan untuk mendeteksi infeksinya pada ayam kampung yang dijual di pasar tradisional menggunakan metode *polymerase chain reaction* (PCR).

Lima sampel *musculus longus colli ventralis* ayam kampung dibeli di pasar tradisional Condongcatur dan Maguwoharjo, Kapanewon Depok, Kabupaten Sleman. *Deoxyribonucleic Acid* (DNA) sampel diisolasi dan dilanjutkan amplifikasi dengan menggunakan metode PCR terhadap gen B1 *Toxoplasma gondii* sepanjang 409 bp. Hasil amplifikasi tersebut dielektroforesis, kemudian divisualisasikan menggunakan UV transilluminator.

Hasil penelitian ini menunjukkan salah satu sampel Pasar Stan Maguwoharjo kemungkinan terinfeksi parasit ini, sedangkan sampel lainnya hasilnya negatif. Pada penelitian ini metode PCR dapat digunakan untuk mendeteksi infeksinya sampel tersebut.

Kata kunci: ayam kampung, Kabupaten Sleman, pasar tradisional, *polymerase chain reaction*, *Toxoplasma gondii*

ABSTRACT

DETECTION OF *Toxoplasma gondii* ON FREE-RANGE CHICKENS SOLD AT CONDONGCATUR AND MAGUWOHARJO TRADITIONAL MARKETS, DEPOK DISTRICT, SLEMAN REGENCY USING POLYMERASE CHAIN REACTION METHOD

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Toxoplasmosis is a zoonotic disease caused by *Toxoplasma gondii* infection. Humans are potentially infected through contaminated food or drinks that contain sporulated oocysts. This study aims to detect the infection on free-range chickens sold in traditional markets using polymerase chain reaction method.

Five *musculus longus colli ventralis* samples were purchased at the Condongcatur and Maguwoharjo traditional markets, Depok District, Sleman Regency. Deoxyribonucleic acid (DNA) samples were isolated and amplified using the PCR method against the *Toxoplasma gondii* B1 gene (409 bp). The results were electrophoresed and then visualized using a UV transilluminator.

This research shows that one of the samples sold at Stan Maguwoharjo Market was possibly infected with this parasite, while other samples had negative results. It can be concluded that the PCR method can detect the infection on the samples above.

Key words: free-range chicken, polymerase chain reaction, Sleman Regency, *Toxoplasma gondii*, traditional market