MOLECULAR CHARACTERIZATION OF 18S SSU rRNA *Cryptosporidium* spp. WHO INFECTED DOGS IN SURABAYA CITY

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ABSTRACT

This study aims to characterize the 18S SSU rRNA *Cryptosporidium* spp. in dogs in the city of Surabaya. A total of 70 dog faecal samples were taken from Animal Hospitals and animal clinics in the city of Surabaya. *Cryptosporidium* spp. isolated and identified microscopically and confirmed by Polymerase Chain Reaction and sequencing. A total of 40 samples were found *Cryptosporidium* spp. oocysts, measuring 2-6 µm. Ten of the 40 positive samples with microscopic examination were tested for PCR and sequencing. Six positive samples were analyzed by blasting. The results of the analysis show similarities with *Cryptosporidium canis* and have a kinship with *Cryptosporidium canis* that infects dogs in Japan, China, Brazil, Australia, England, Romania, Mexico, France, Thailand, the Philippines and America.

Keywords: *Cryptosporidium*, dog, molecular characterization, Polymerase Chain Reaction