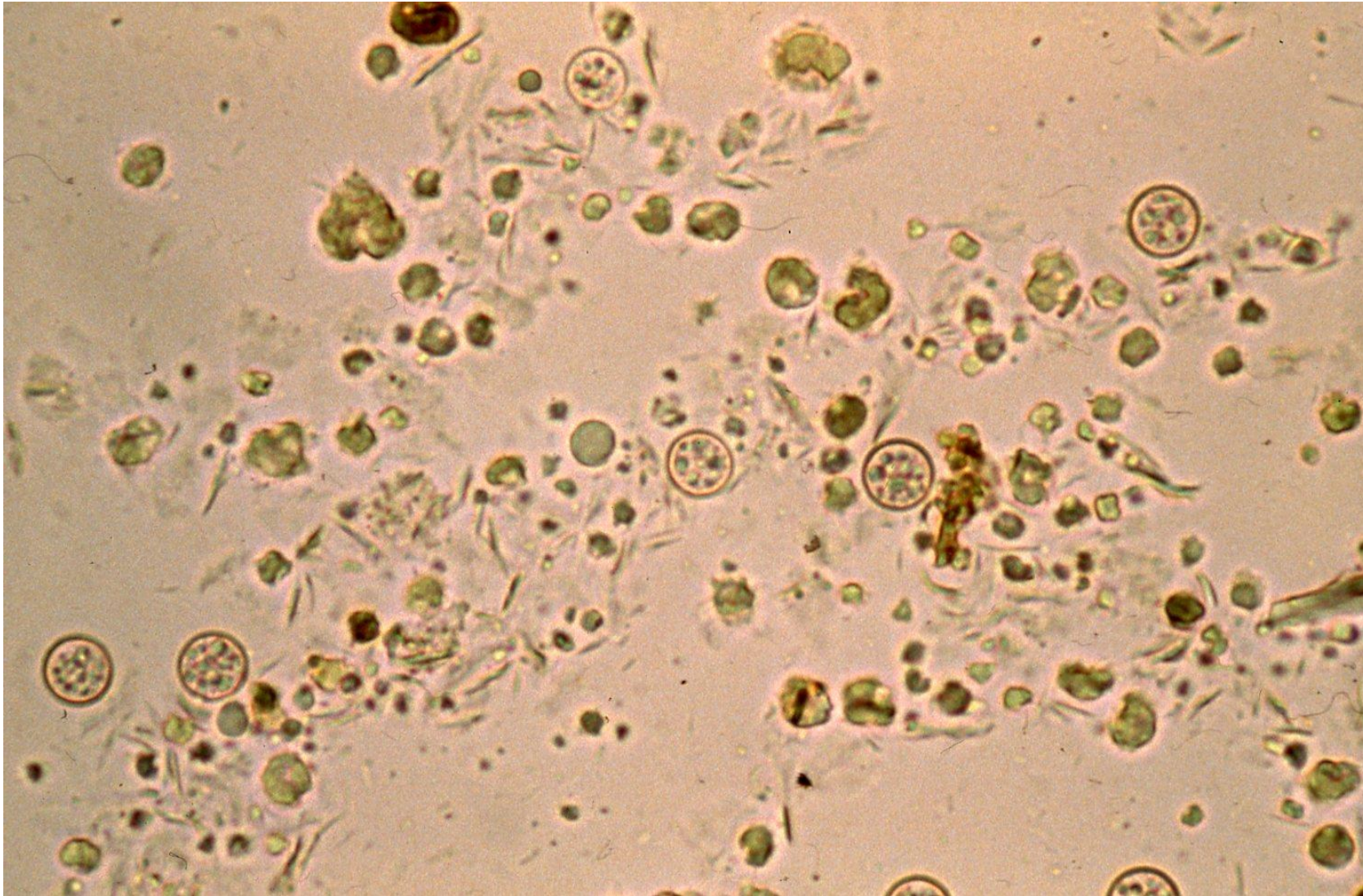


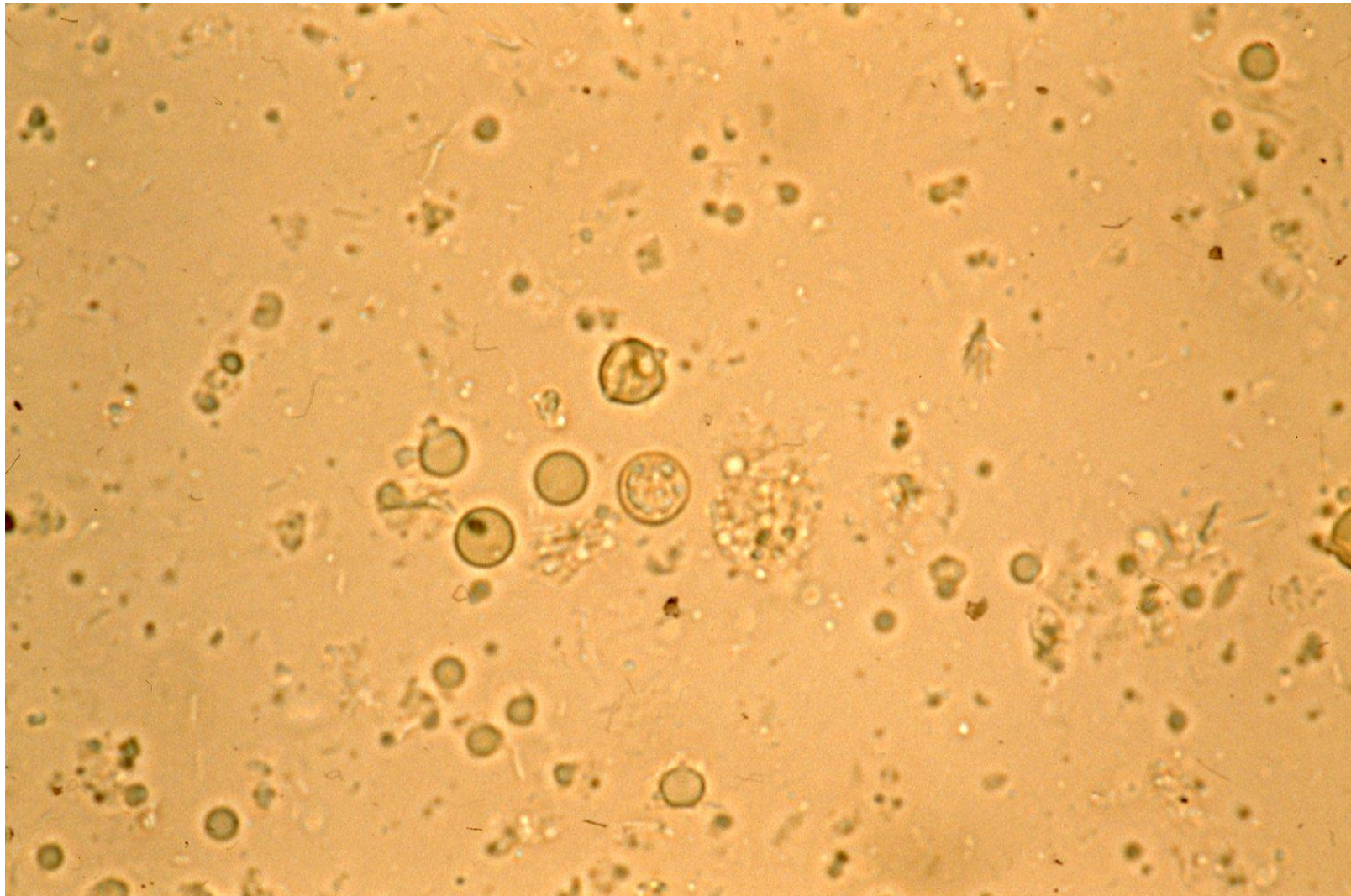
Cyclospora cayetanensis infection

Cyclospora cayetanensis, a coccidian protozoa belonging to the subphylum Apicomplexa, causes protracted and relapsing gastroenteritis with diarrhea accompanied by anorexia, malaise, nausea and cramping. Occasionally, cyclosporiasis outbreaks happen: prepackaged vegetable trays and vegetable salads sold at a fast food chain caused the cyclosporiasis outbreaks. Infections are seasonal, occurring in the rainy season or summer. *C. cayetanensis* can be detected in food, water, soil and such animals as vipers, moles, myriapodes, rodents and monkeys. The diagnosis is dependent on the detection of oocysts in the diarrheal stool by Ziehl-Neelsen's or Kinyoun's acid-fast staining or PCR-based molecular testing. The spherical oocysts measure between 7.5 and 10 μm , and have a 50 nm-thick wall. One oocyst contains two sporocysts and each sporocyst contains two sporozoites. Treatment with trimethoprim-sulfamethoxazole is effective.

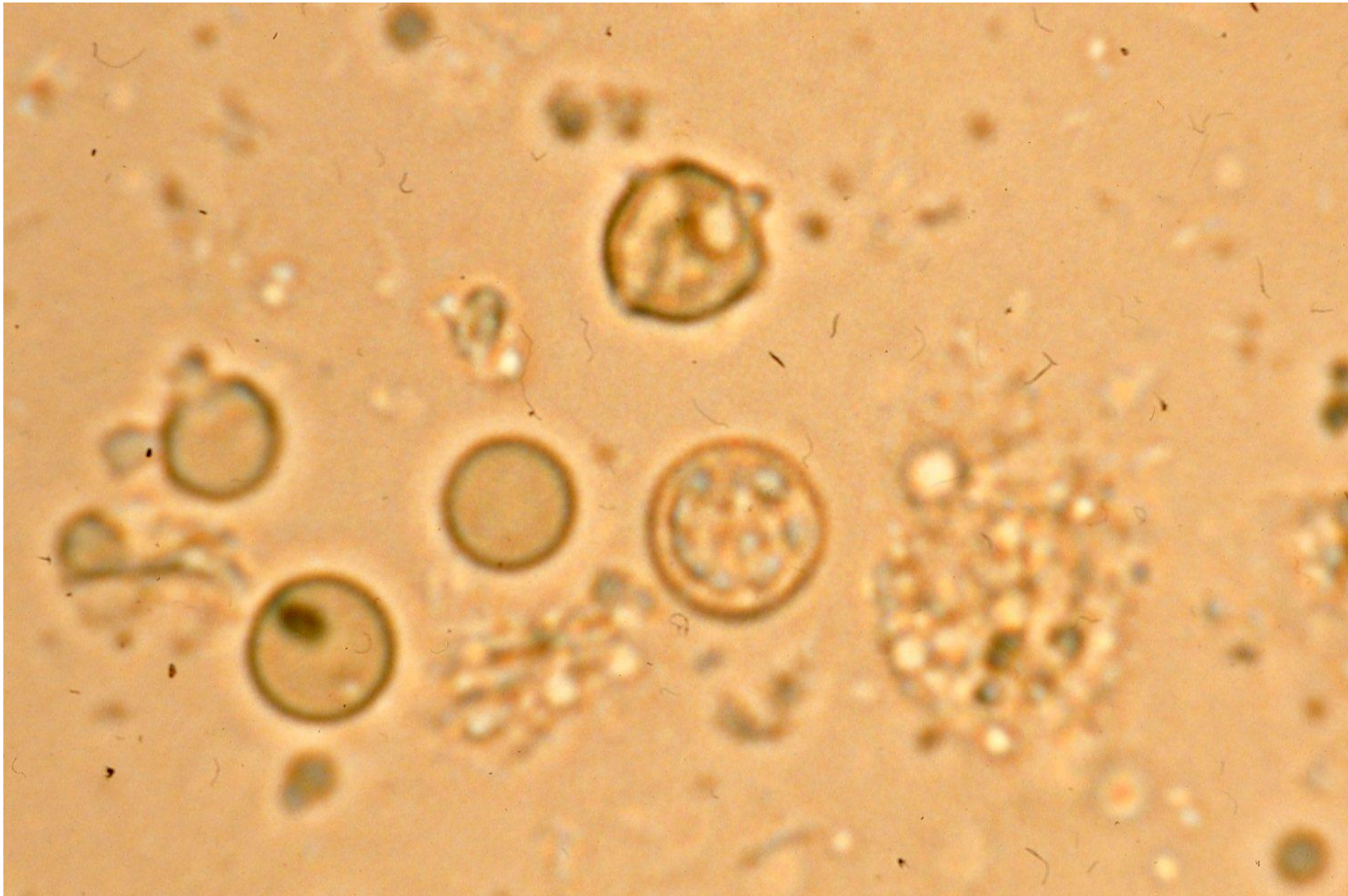
Ref.: Li J, et al. *Cyclospora cayetanensis* infection in humans: biological characteristics, clinical features, epidemiology, detection method and treatment. *Parasitology* 2020; 147(2): 160-170. doi: 10.1017/S0031182019001471



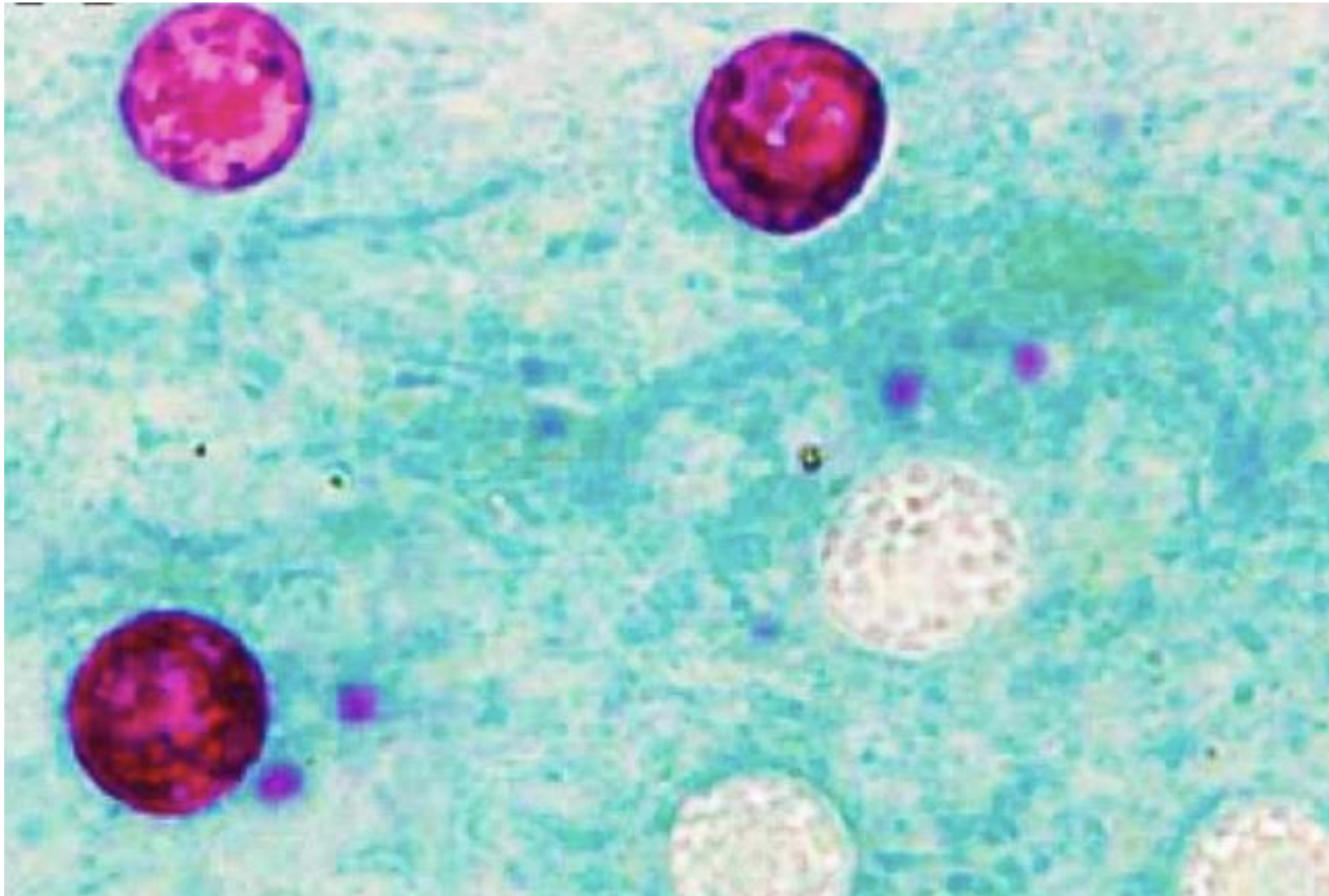
Oocysts of *Cyclospora cayetanensis* in diarrheal stool of an adult man. Spherical oocysts have a thick cell wall, and contain granular substances. Unstained preparation-1



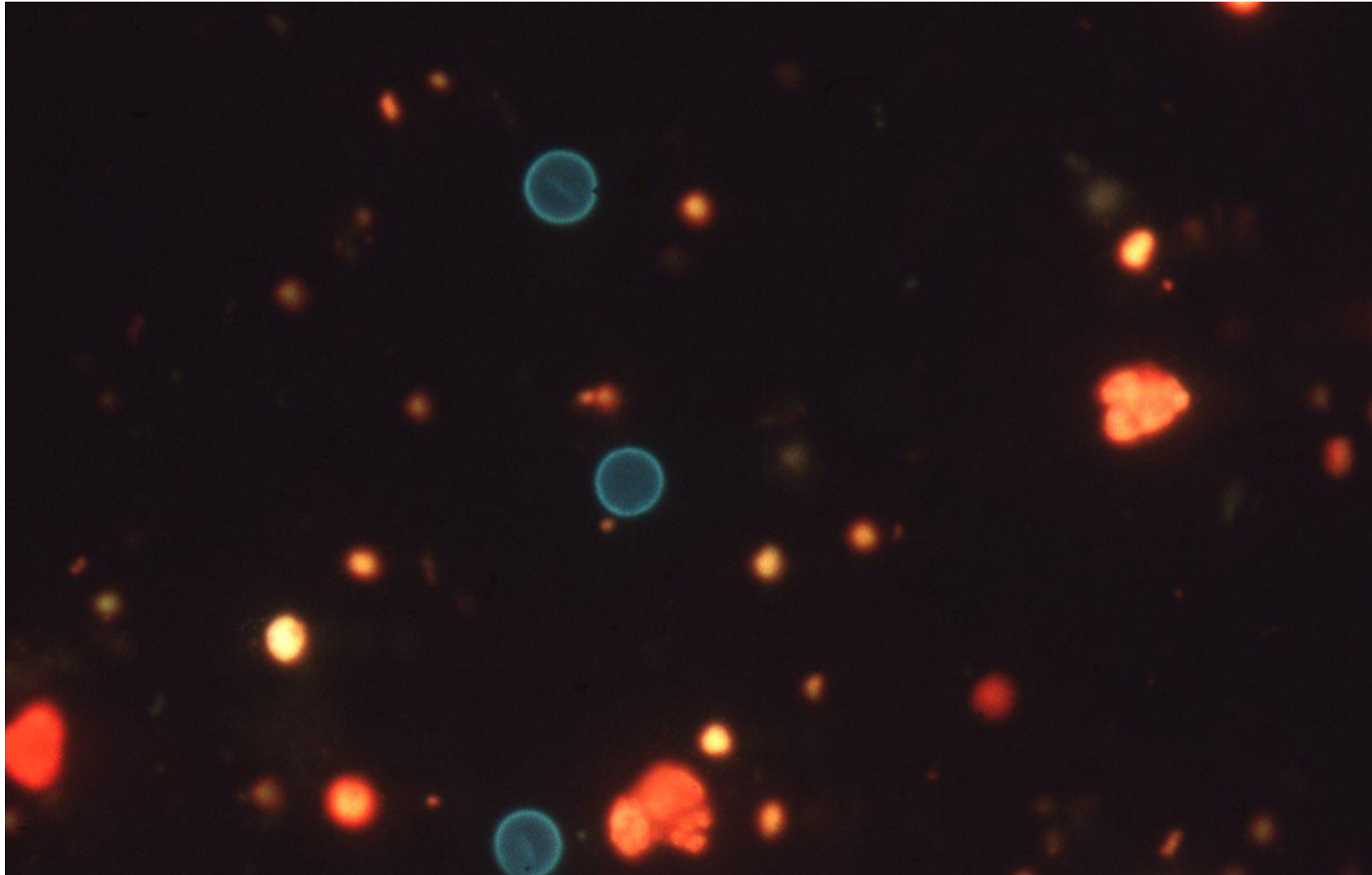
Oocysts of *Cyclospora cayetanensis* in diarrheal stool of an adult man. Spherical oocysts have a thick cell wall, and contain granular substances. Unstained preparation-2



Oocysts of *Cyclospora cayetanensis* in diarrheal stool of an adult man. Spherical oocysts have a thick cell wall, and contain granular substances. Unstained preparation-3



Oocysts of *Cyclospora cayetanensis* in diarrheal stool of an adult man. Spherical oocysts show acid fastness by Ziehl-Neelsen's staining. Acid-fast staining



Oocysts of *Cyclospora cayetanensis* in diarrheal stool of an adult man. Spherical oocysts stain blue under ultraviolet light. Dark field illumination