



# Cyclospora microscopy

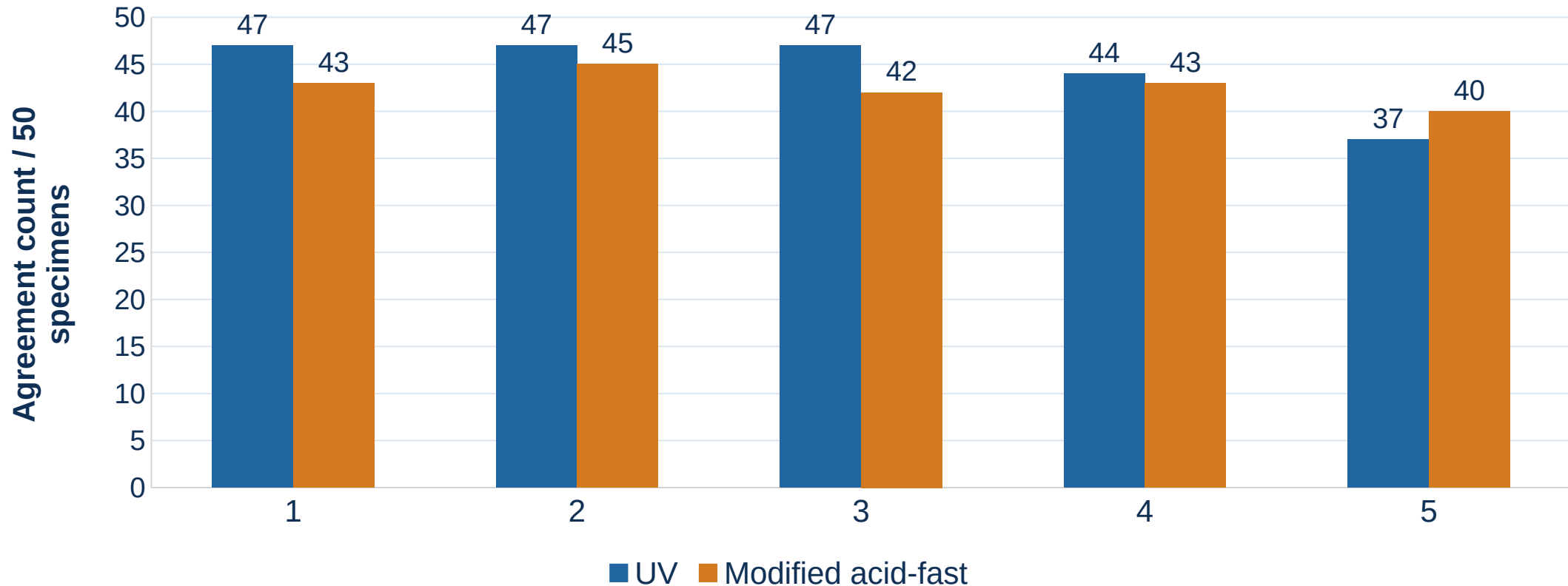
Reference appearance and biological endpoints

Society for Evolutionary Parasite Systematics



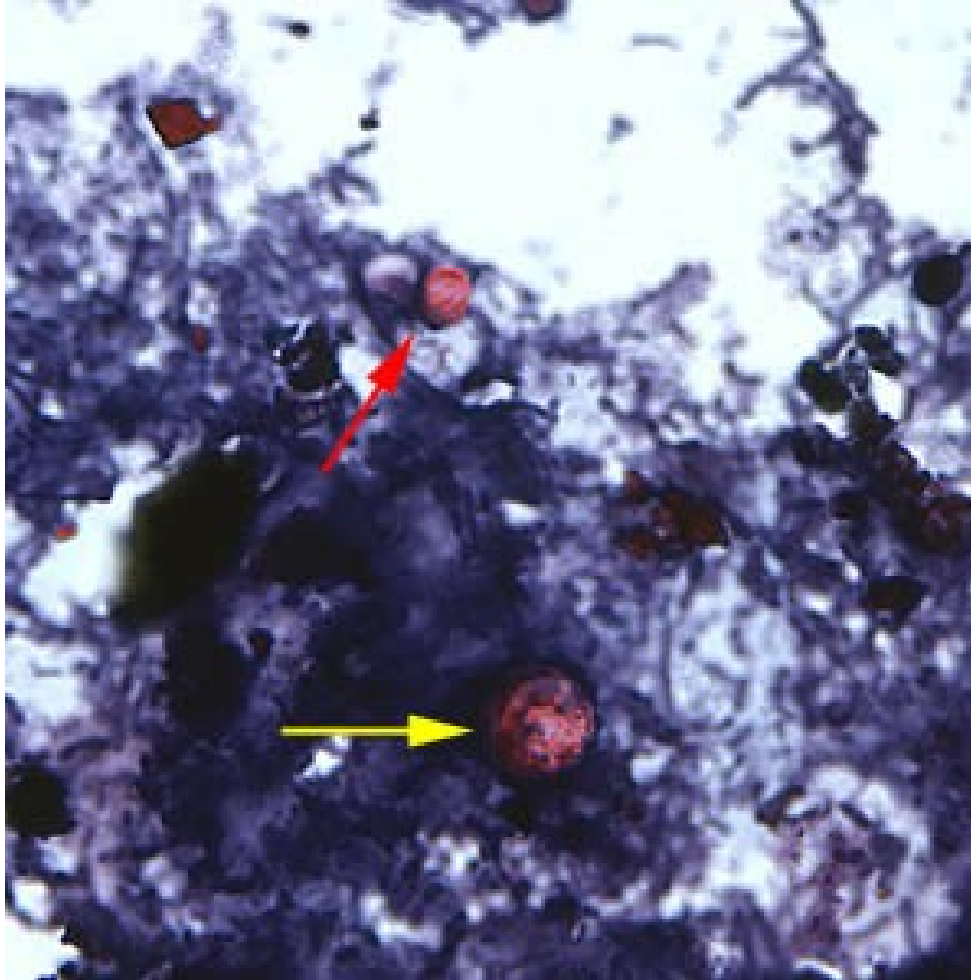
CDC DPDx Cyclosporiasis. UV autofluorescence source image. Layout and proportional resizing only.

# Reader agreement varies by method and reader



Ma, Mathison, & Couturier (2025), Table 1, doi:10.1128/jcm.01084-24. All five readers evaluated the same 50 specimens. These are counts, not 250 independent specimens.

# A mixed-taxon reference needs both labels



Yellow arrow: *Cyclospora cayetanensis*.

Red arrow: *Cryptosporidium parvum*.

Source arrows and pixels remain intact. Display size supplies no physical calibration.

# Separate biological endpoints



| Endpoint       | Question                                     | Evidence requirement                     |
|----------------|----------------------------------------------|------------------------------------------|
| Recognition    | Does the object resemble the reference?      | Preparation and visible morphology       |
| Identification | Which organism does it represent?            | Diagnostic comparison and adjudication   |
| Viability      | Can the organism remain biologically active? | Appropriate validated viability endpoint |
| Infectivity    | Can it establish infection?                  | Appropriate experimental evidence        |

SEPS Cyclospora Microscopy and Inference. No SEPS diagnostic, viability or infectivity validation claimed.

# Published outcome categories



## Additional error categories

Incorrect coccidian assignments and additional-coccidian reports explain most remaining evaluations.

The table retains 50 specimens per reader and method.

## One unresolved table discrepancy

Reader 3 MAF: 42 agreement + 6 false negatives + 1 additional-coccidian report = 49.

We retain the published numbers and disclose the residual.