

Onchocerciasis Ov16 Rapid Diagnostic Test (RDT)

The Onchocerciasis IgG4 test is a rapid diagnostic test that qualitatively detects IgG4 antibodies against the Ov16 antigen in human blood samples. This guide will demonstrate how to use and interpret the test. Although the test is relatively simple to use, adequate training is necessary to reduce inter-observer variability and interpretation error.

Basic Guidelines

- Kits should be stored between 1-40 °C. Kits should NOT be used if frozen, damaged, or past the expiration date.
- Test cassettes should not be exposed to prolonged heat and humidity.
- Gloves should always be worn when handling blood, serum or plasma.
- Tests should be read immediately after the recommended 20 minute incubation period.

Test Procedure

1



Ensure test cassettes and chase buffer are at ambient temperature before performing tests.

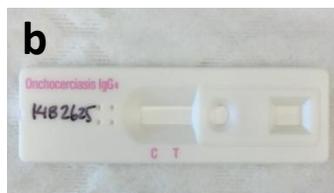
2



Remove test cassette from kit packaging.

Note: Tests should be handled by the edges of the cassette only.

3



Test devices should be labeled with appropriate patient identifiers either with adhesive (a) sticker-type labels (preferred) or (b) by writing directly on the cassette.

Note: DO NOT cover 4 air vent holes when using sticker-type labels.

4



When testing with blood directly from a finger stick use the 10µl micropipette provided (a); fill micropipette to the blue line.

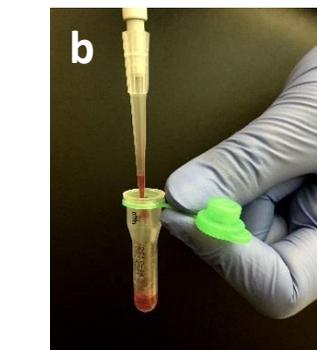
Note: Lightly squeeze then slowly release the pipette until blood collects to blue line.



Add blood to the circular sample well.

Note: If blood is past the blue line, depress onto tissue until blood reaches the blue line.

OR

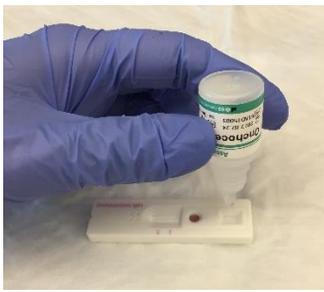


When testing with blood from a blood collection tube use a calibrated micropipette to measure 10µl (b).



Add blood to the circular sample well.

5



Slowly add 4 drops of chase buffer directly into the square chase buffer well.

Note: Buffer bottle should be held directly vertical to the square buffer well and not at an angle to ensure proper volume of buffer is dispensed.

6



Record reading time directly on the cassette to ensure results are read at the appropriate time

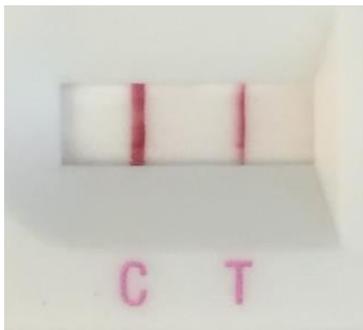
7



Read results immediately after the 20 minute incubation period; write result directly on test cassette.

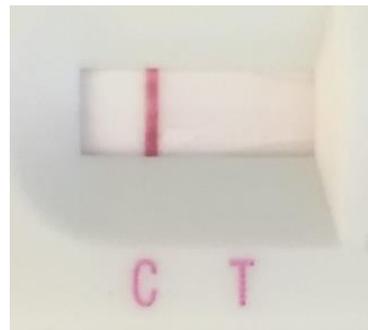
Test Interpretation:

POSITIVE



Control (C) and test (T) line are clearly present

NEGATIVE



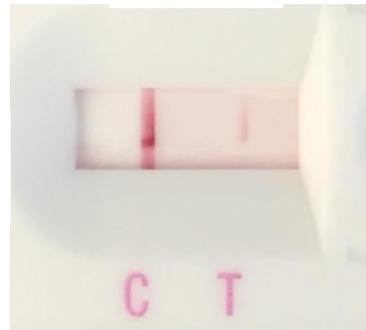
Only control (C) line is present

INVALID



No control (C) line appears

INVALID



Only partial test line (T) line or control line (C) appears

Note: Invalid tests should be repeated if possible.