

# Automatic microfilaria detection by AI



Using Knott test for identifying microfilariae in bulk can be quite time consuming. By using a motorized microscope we developed a system that automatically detects and counts microfilariae providing faster and more reliable results than human resource.



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1.



### Perform a Modified Knott Test

Mix 1 ml EDTA (or heparin) blood and 9 ml 2% formalin in a centrifuge tube. Centrifuge at 1500 rpm for 5 minutes. Pour off the supernatant. Add 1-2 drops of 0.1% methylene blue dye.



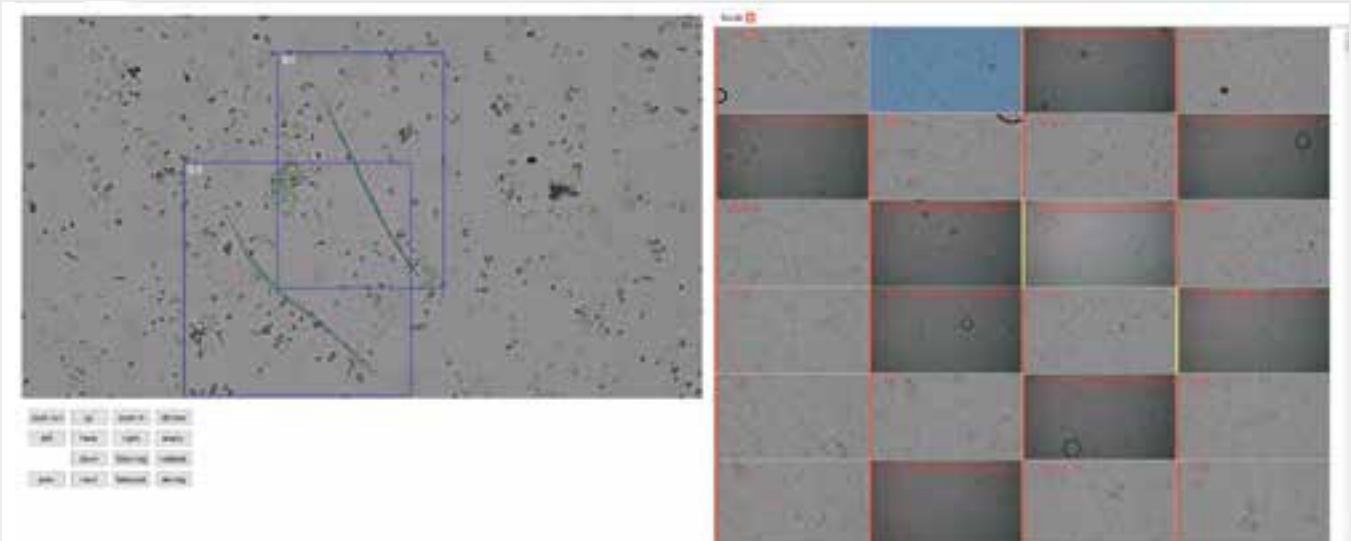
2.

Place the samples (up to 4 at a time) under the microscope



3.

The AI software analyses the samples



4.

### You receive the result

The software collects all the positive images, so after validation, the system can send the numerical results to a specified e-mail address or database.

