

MICA ADVANCE
ESCHERICHIA COLI



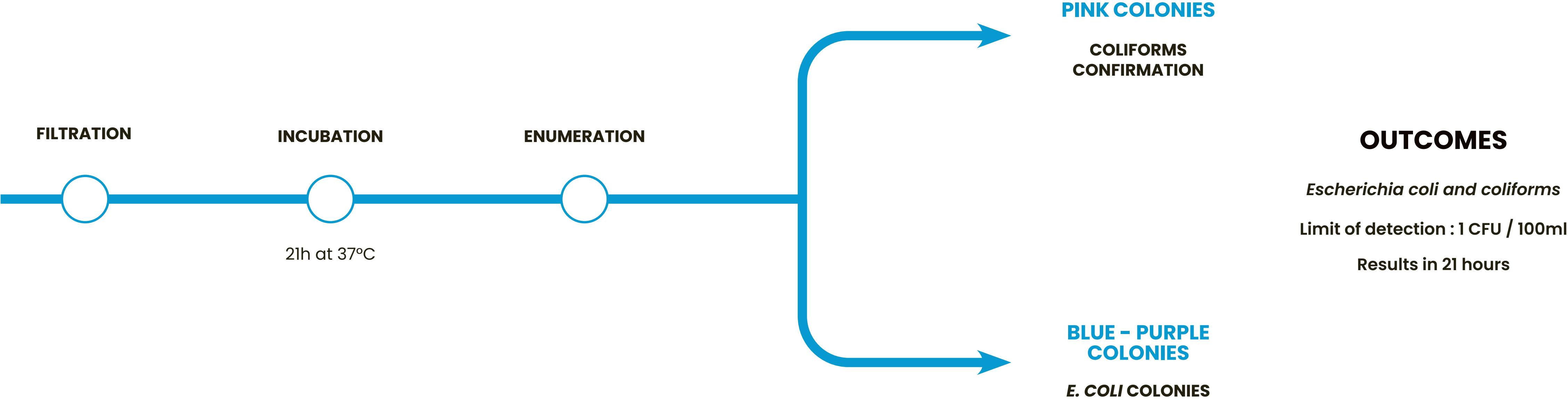
E. coli is a bacteria commonly found in the intestines of humans and animals.

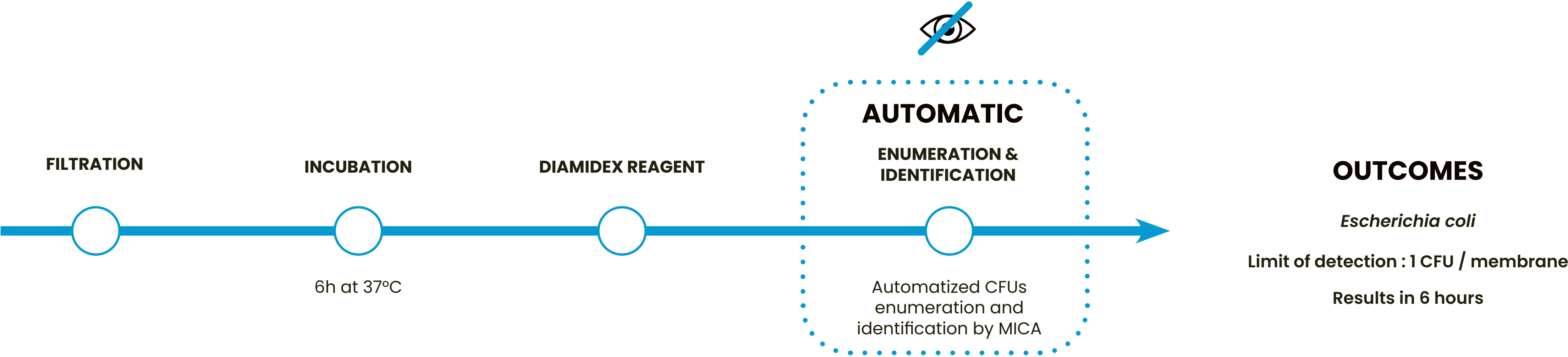
This contamination poses health risks, as some strains of *E. coli*, can cause severe illness, including diarrhea, kidney failure, and even death.

It can also be present in water, where its presence signals potential fecal contamination.

Contaminated water is a leading source of *E. coli* infections, with the bacteria often spreading through drinking water, irrigation, or poor sanitation practices.

**TESTING WATER FOR *E. COLI* IS CRUCIAL TO PREVENT
OUTBREAKS AND PROTECT PUBLIC HEALTH.**





A complete process based on ISO 9308-1



The Diamidex reagent used have made *Escherichia coli* fluorescent.

100

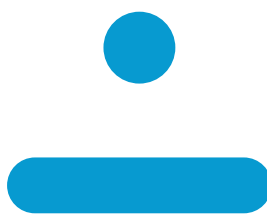
MICA Advance takes 100 high resolution pictures of the membrane.

IR

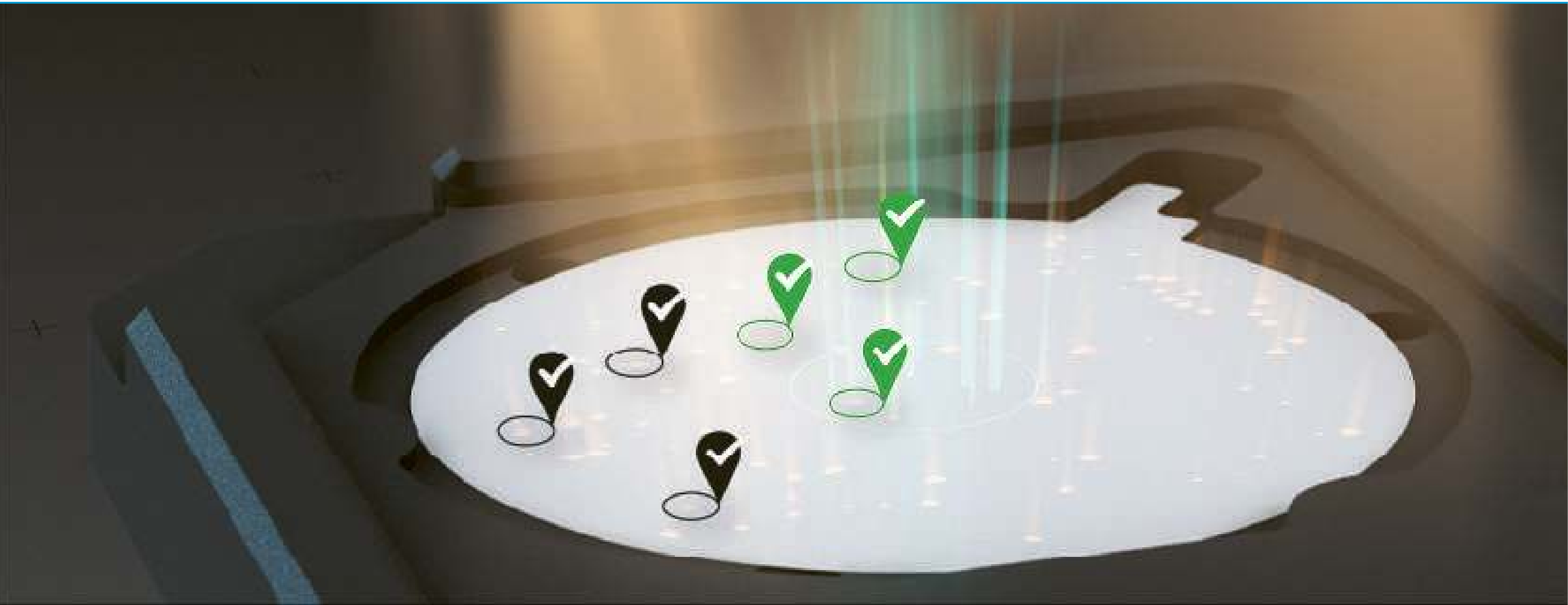
MICA Advance image reconstitution program reassembles the 100 pictures of the membrane.

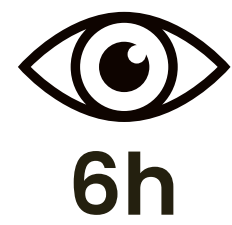
ML

MICA Advance *E. coli* Machine Learning analyzes the membrane image.



Eliminates each interfering fluorescent signal that is not *Escherichia coli* on the membrane.

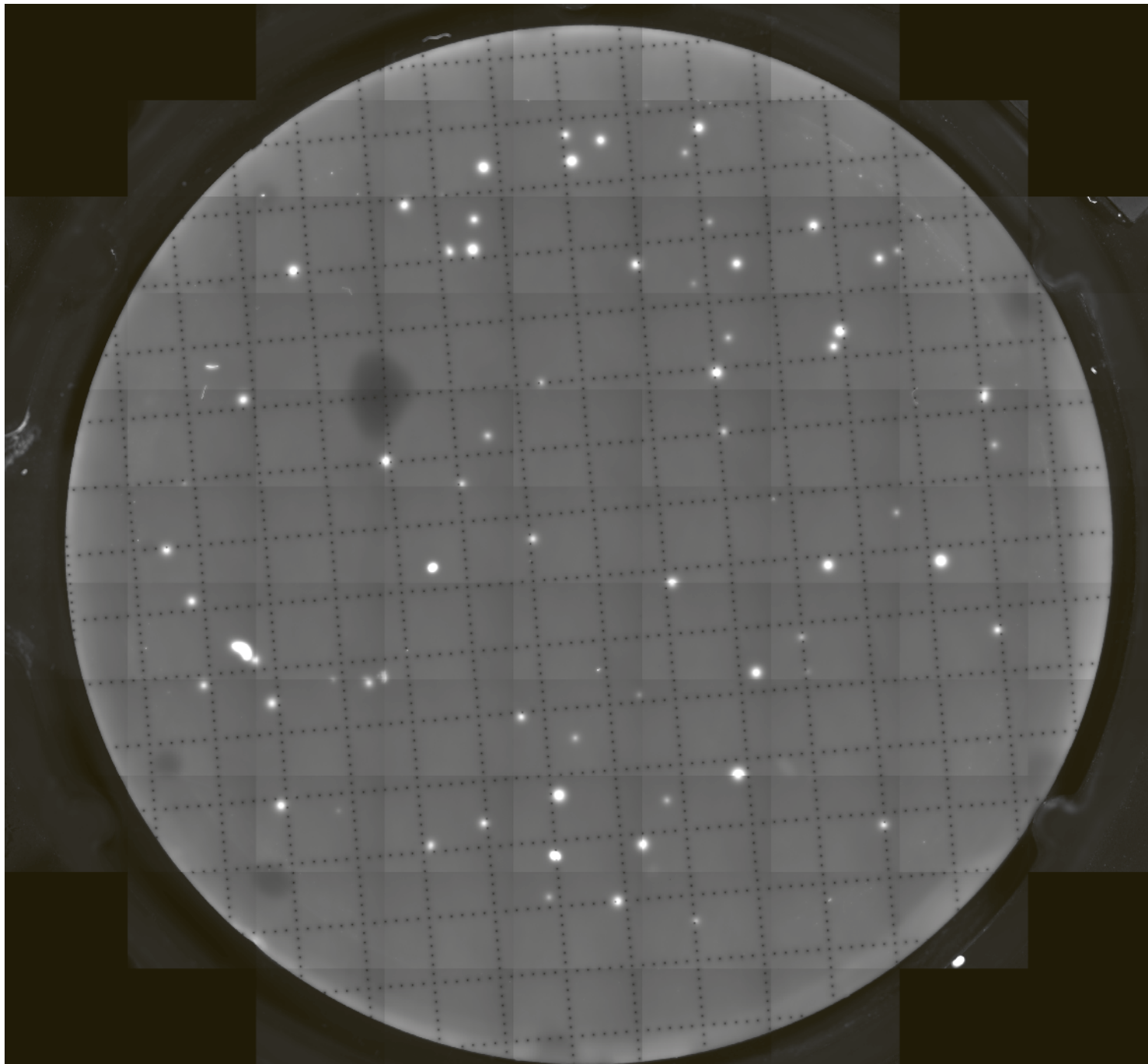




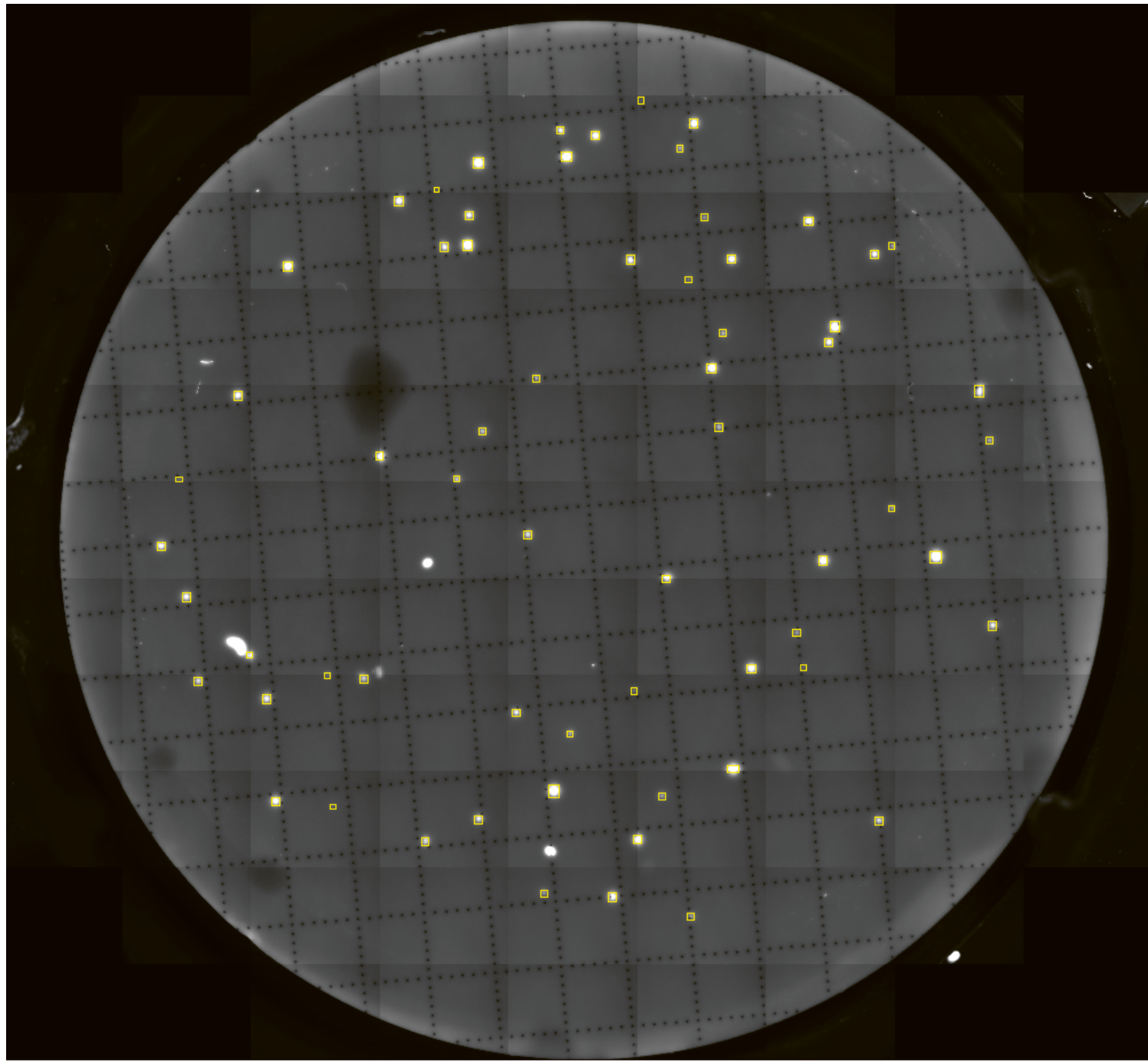
MICA Advance 6h



Eye membrane visualisation at 6h



Scanning of the membrane



Automatic detection of *E. coli* by AI

Automatic detection of *E. coli* in 6 hours.

- Results in **6h** instead of 24 hours
- **Time saving** on manpower
- **Easy to use** and to integrate to the current workflow
- High **accuracy** and **repeatability**