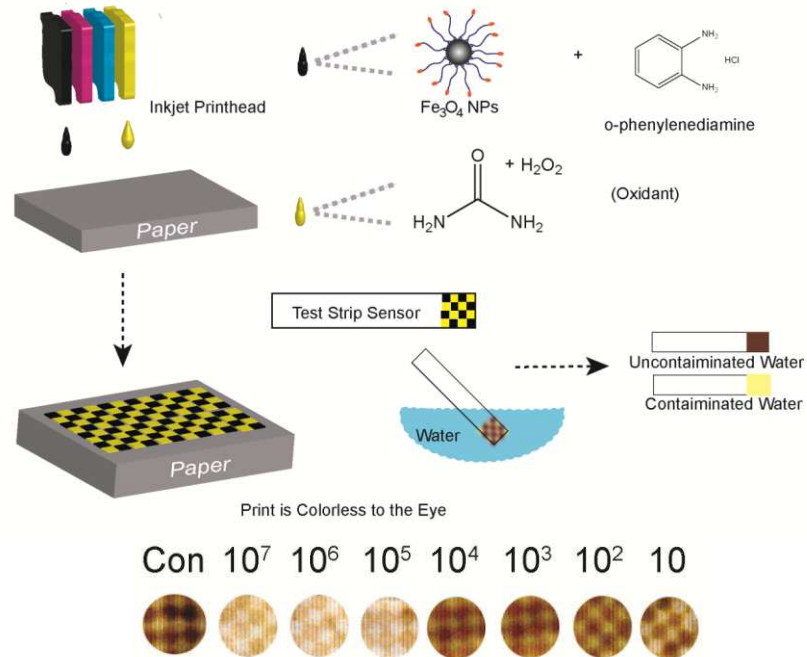


Test Strips for Bacterial Contamination of Drinking Water

We have developed test strip diagnostics for drinking water contamination. These strips use inexpensive iron oxide nanoparticles to detect bacteria, producing a colorimetric output that can be followed by eye. These test strips have been produced in a prototype R2R process, generating very inexpensive and reliable systems for bacteria detection. Current efforts are focused on lowering the limits of detection and real-world testing in the US and the developing world.



- Detection of bacteria $<10^4$ bacteria/mL
- $< \$0.01$ /strip using R2R technology

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