

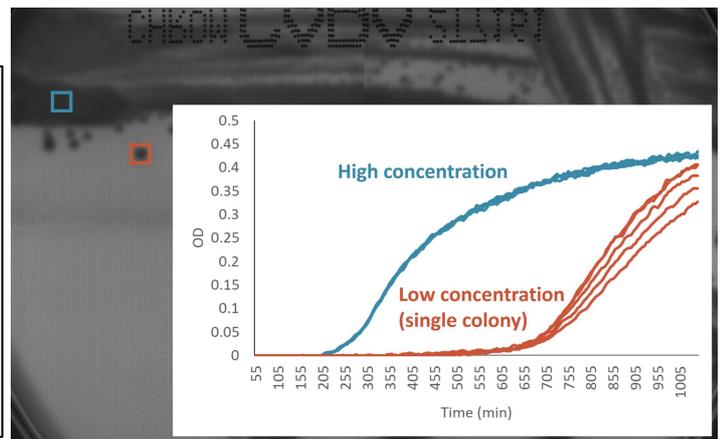
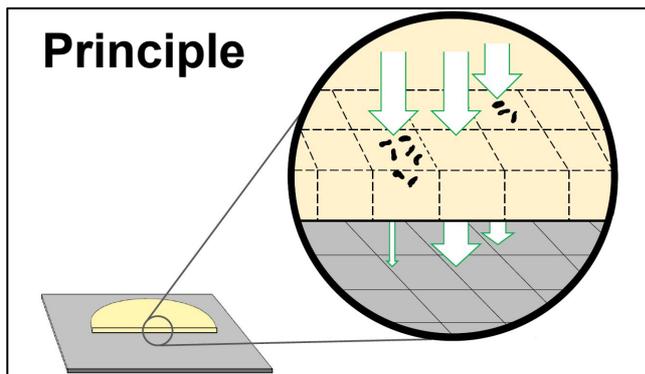


Bacterial Growth Monitor for Agar Plates

- **Optical density measurement allows earlier detection even before colony formation.**
- **Covers the entire surface of a standard 9 cm plate.**
- **A prototype is available for collaborative research in USA.**

Features

- One million pixels on a 2D sensor measure transmittance every 5 minutes.
- Monitoring growth from the logarithmic phase enables various microbiological studies including early growth detection and prediction of inhibition circles.
- The compact size allows 10 units to be installed in a standard incubator.



- Patent pending
- Reference "A New Thin-Film Transistor Image Sensor for Early Detection of Bacterial Growth on Agar Plates", M. Nakada et al., American Society for Microbiology, Houston, 2023

