

Process Analytics in Breweries

Incyte®



VIABLE CELL DENSITY (VCD)

The Incyte® sensor enables real-time, on-line measurement of viable cells without need for sampling. Typical applications include mammalian cell culture, yeast, and high-density bacterial fermentation. The measurement is independent of changes in media, microcarriers, dead cells, and debris. Online measurement of viable cells makes it possible to detect events and respond in real time without off-line sampling.

- Increase Yield and Lower Production Costs
- Detect Changes in Cell Physiology with Frequency Scanning
- Enable Process Control for Improved Process Consistency
- Early Detection of Process Deviations

HOW IT WORKS

The Incyte measurement principle is based on capacitance. In an alternating electrical field, viable cells behave like small capacitors. The charge from these small capacitors is measured by the sensor and reported as permittivity (capacitance per area).

