

Online Data Real-Time Decisions

PROCESS CONTROL LIMITATIONS

DO and **pH** monitor the process conditions and are not directly related to cell physiology

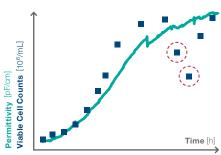




Offline sampling is time consuming and only provides a reactionary window into the past



Errors of offline analytics may lead to wrong decisions



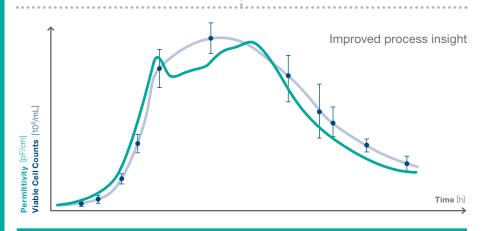
ONLINE VIABLE CELL DENSITY MONITORING

Continuous data without manual intervention



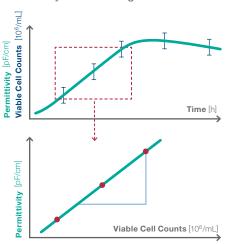


Incyte enables online measurement of viable cell density based on permittivity



PERMITTIVITY CORRELATES WITH:

- Viable cell counts
- OD/dry and wet weight



SUMMARY

Online measurement of viable cell density provides:

- Better process insight
- Reduced work
- Reduced risk of contamination
- Less errors
- Early detection of process deviations





Want to learn more about Hamilton products?

Visit hamiltoncompany.com/sensors or email us at sensors@hamiltoncompany.com with questions or to request technical or product information.



©2017 Hamilton Company. All rights reserved.

All other trademarks are owned and/or registered by Hamilton Company in the U.S. and/or other countries.

Lit. No. L30018 — 11/2017



Web: www.hamiltoncompany.com USA: 800-648-5950 Europe: +41-58-610-10-10

Hamilton Americas & Pacific Rim

Hamilton Company Inc. 4970 Energy Way Reno, Nevada 89502 USA Tel: +1-775-858-3000 Fax: +1-775-856-7259 sales@hamiltoncompany.com Hamilton Europe, Asia & Africa Hamilton Bonaduz A.G. Via Crusch 8 CH-7402 Bonaduz, Switzerland Tel: +41-58-610-10-10 Fax: +41-58-610-00-10 contact.pa.ch@hamilton.ch