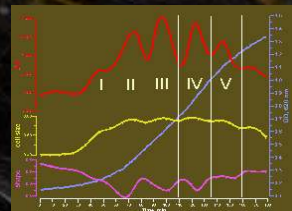


EloTrace

Continuous
electrooptical analysis
in living bacteria



Ultimate control of bacterial fermentation

 biotronix

Electrooptical real-time analysis of bacterial cultures *in vivo*

High yields, high quality and reproducible processes are all necessary for efficient biotechnological production. The use of controlled conditions when monitoring all relevant parameters of culture development is a must for bacterial fermentation.

The electrooptical monitoring of bacterial cell suspensions uses high-precision optical sensors which quantify induced polarized charges *in vivo*. The level of this polarizability is closely linked to the actual physiological state of the cell, so that dynamic changes in cell activity and regulatory processes can be determined during cultivation processes in real time.

biotronix has developed the world's first measurement unit for continuous electrooptical tracing of bacterial parameters during cultivation. Discover more insights into living bacterial cells and identify precise conditions and time points of inoculation, induction or harvest.

High end tool for automatic electrooptical measurement: EloTrace

The EloTrace unit from biotronix is an automatic measurement tool which combines all necessary functions of probe sampling and probe preparation with electrooptical measurements in as yet unseen quality. Two suspensions can be traced simultaneously. No expensive chemicals are needed. Intelligent software makes it easy to use.



Advantages of EloTrace

- Determination of cell activity, stress levels, cell size and morphological changes
- Observation of division frequency and prediction of culture development
- Prediction of time points with higher cell vitality
- Selection of optimal time points of inoculation, induction and harvest

Areas of application

- Production of recombinant proteins and other biosubstances
- Production of vaccines
- Production of starter cultures, probiotic and competent cells
- High density fermentation
- Quality assurance and process validation of fermentations
- Many other fermentation strategies

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