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Nordic Pharma and Analyzer Center

Lucillus PIMS

- Static or evidence-based design of experiments
- Reactor assignment plan with calendar
- Formula with media assignment for reactors and feeds
- Analysis plan with definition of process variables and analytical methods
- Preparing components and building blocks for the media preparation
- Preparing media components (lots)
- Mixing and filling lots
- Storing media and lots
- Continuous signal recording of the bioreactor and all connected subsystems.
- Online calculation of relevant values during the recording (e.g. consumption and formation rates)
- Direct signal processing during the process execution (smoothing, integration, pattern recognition...)
- Process control (implementation of the design of experiments)
- Setpoint calculations, software controller, model-based control, among many others
- Process monitoring and status analysis
- Online comparison of the process data with historical process data
- Entering offline analytical data
- Management of the sampling process to ensure unambiguous sample identification
- Combing analytical data with process data
- Interactive data analysis: identifying specific rates and special characteristics
- Performance comparison: positioning of the clone/method regarding production suitability
- Reverse documentation of the process with assigned data analysis
- Automatic generation of reports