

Interfacing Balance/pH Meter Instruments with LIMS Platform

The client is a large international pharmaceutical manufacturer whose facility manufactures biologics, monoclonal antibodies, and cell and gene therapy products.

The client identified multiple data integrity (DI) gaps in their existing process of manually transcribing data from balances and pH meters into LIMS.

The client engaged Clarkston to develop an interface between the balances and pH meters and laboratory information management systems (LIMS) to eliminate the identified DI gaps and increase analyst productivity.

One of the primary challenges of the project was to design and implement the interface without using any additional software, such as LabStation or other LabWare modules, or the creation of custom database tables, and with minimal master data configuration and training necessary.

Life Sciences Case Study

PROJECT OVERVIEW

INDUSTRY:



Pharmaceutical

PRODUCTS AND SERVICES :



Biologics/Cell and Gene Therapy

PRIMARY OBJECTIVES:

- Eliminate identified data integrity (DI) gaps
- Improve data quality
- Enhance analyst efficiency

RESOLUTION:

- Recommended hardware to allow connection of pH meters to LIMS
- Designed and developed interface between LabWare LIMS and balances/pH meters using LIMS BASIC
- Redesigned existing master data structure of analyses to allow for simple configuration for use with interface with minimal training required for master data personnel
- Created additional master data configuration to allow flexibility to accommodate instrument data format changes with no or minimal, localized code changes, without the use of custom database tables
- Enhanced capability for viewing full precision of instrument data while still checking against local component limits and utilizing rounding rules
- Provided enhanced interface for viewing instrument source data and audit trail records

KEY BENEFITS:

- Eliminated identified DI gaps
- Removed or minimized data transcription errors for balance/pH data
- Enhanced analyst efficiency
- Improved instrument data capture
- Strengthened audit viewing capabilities



KPIs

All identified DI gaps successfully remediated

Elimination or significant reduction in use of laboratory notebooks/transcription error to LIMS for balance/pH data

Analysis master data reconfiguration successfully completed by members MD team

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