YPSO Ionic®

Maximize the value of your experimental data

COLLECT AND STRUCTURE EXPERIMENTAL DATA TO ENSURE DATA COMPLETENESS AND REUSABILITY

Features: Compared to a classical ELN, Ypso-Ionic **associates the experimental protocol** (column dimensions, raw materials composition, flowrates) **with clearly labelled measured results** (UV, pH, conductivity, species concentration). Describe and share your experimental data **in a standardized, contextualized and rational manner** across all users. Store in a single place and easily access all documents in a wide variety of formats.

Benefits:

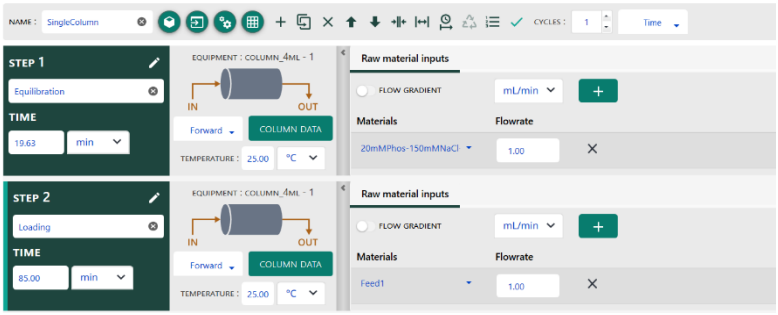
- Ensure **data completeness and reusability** even years after the experiments were performed.
- Enjoy **reliable tech transfer** with both single column and multicolumn process configurations.

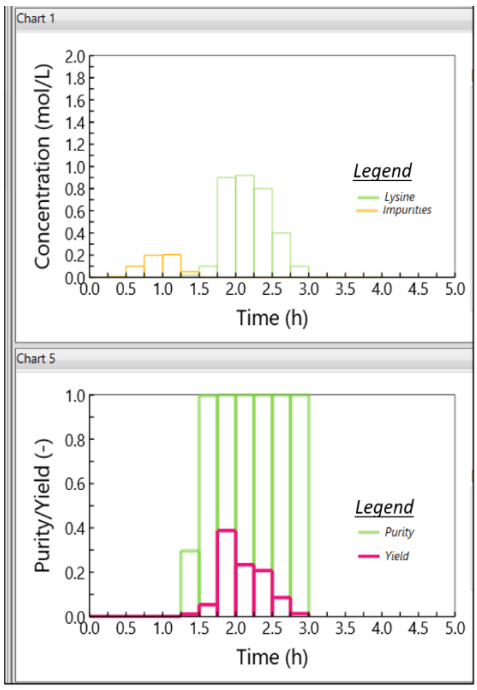
EASILY EXTRACT RELEVANT INFORMATION AND KPIs FROM EXPERIMENTAL DATA

Features:

- **Automatically calculate mass balance** to provide quick access to the quantities and compositions entering and exiting the process. **Assess raw materials consumption, wastes generation** and **identify material losses.**
- Perform **technical assessment** and calculate KPIs (**yield, purity, productivity, eluent consumption)** on pooled fractions.

Benefits: Identify potential process improvements and perform **troubleshooting** based on experimental data available.





SAVE TIME AND REDUCE ERROR-PRONE MANUAL TYPING

Features:

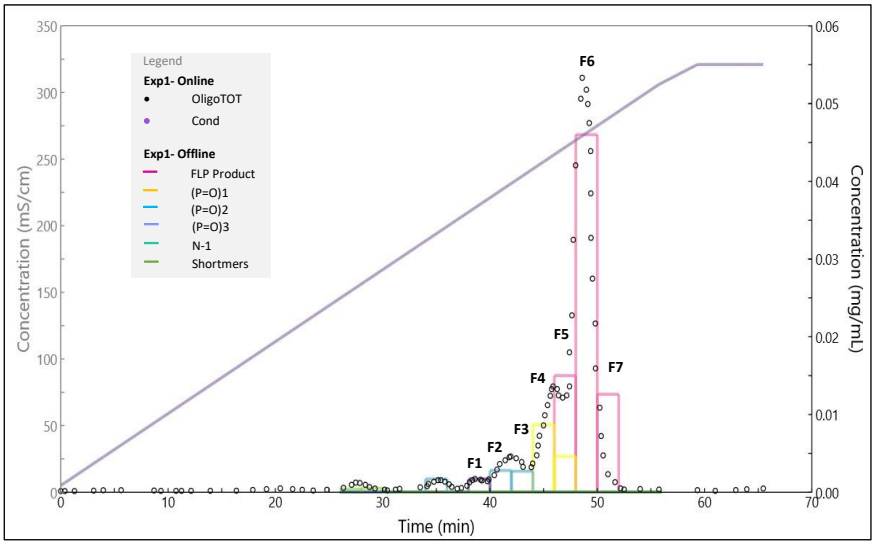
- Work **with your own units' measurement, convert them automatically** and align all units on your preferred data format in one click.
- Simply import your data from Excel and other applications.

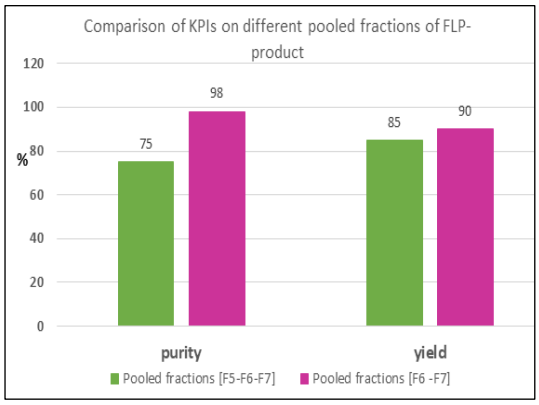
Benefits: Enhance accuracy and **save time by reducing double typing and manual conversion which are error prone.**

VISUALIZE EXPERIMENTAL RESULTS TO MAKE INFORMED-DECISIONS

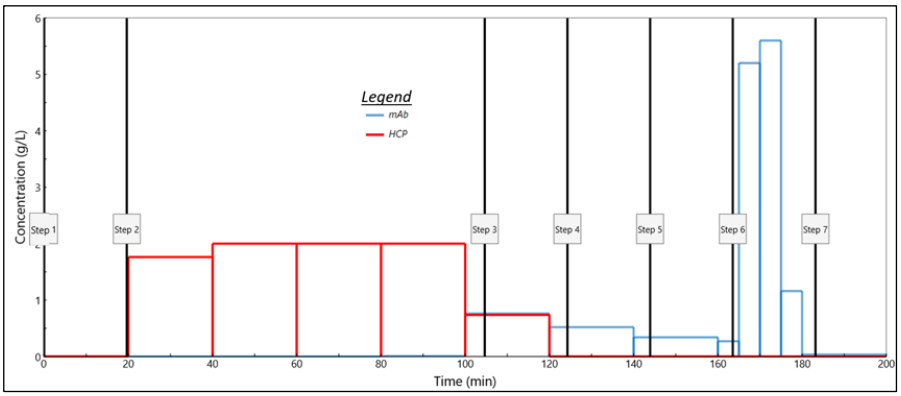
Features:

- Highlight your data with flexible graphs: **offline fraction analyses and online measurements** such as UV, pH, conductivity, concentrations…**can be superimposed** on the same graph**.** Then, **visualize at a glance when to stop collecting your product of interest to obtain the highest purity or yield.**
- **Calculate composition of pooled fractions:** choose which fractions to combine and automatically compute the product recovery and impurities concentration.
- **Easily compare different experiments and scenarios** (check consistency between batches and visualize impacts of a recipe change)





- **With Ypso-Ionic, the duration of each chromatographic step** and calculated KPIs can be displayed **on the elution profile.**



Benefits: Leverage insights on the separation process for rational decision-making, identification of bottlenecks and process improvement.

TAKE ADVANTAGE OF A SEAMLESS CONNECTION TO OUR INTEGRATED DATABASE

Features: **Use the database to store and define** raw materials (crude, buffers, cleaning solutions, etc.), species (product, impurities, etc.), chromatographic media, and columns together with their characteristics and specifications.

Benefits: **Centralize information, standardize** process assessment and **ensure objective comparison** between scenarios from different team members.

Use our handy tools to easily prepare buffers!

- Get buffer preparation recipes based on specified targets (e.g., target pH and concentration)
- Predict the composition and pH of a mix of several solutions

IN A NUTSCHELL

KNOWLEDGE MANAGEMENT	DECISION-MAKING
Data completeness and reusability Standardized, contextualized and rational environment	Great data visualization Comparison between scenarios and experiments Automatic KPIs calculation
TECHNOLOGY TRANSFER	**PROCESS IMPROVEMENT**

IN ADDITION, EMBRACE THE POWER OF MECHANISTIC SIMULATION

Did you know that Ypso-Ionic can help reducing your experimental burden while improving your process performances thanks to simulation?

- Simulate outlet concentration profile, pH or conductivity
- Apply automatic KPIs and compare experiments with simulations
- Investigate the impact of key parameters and predict behaviours in non-explored regions

Contact us for a demo!

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