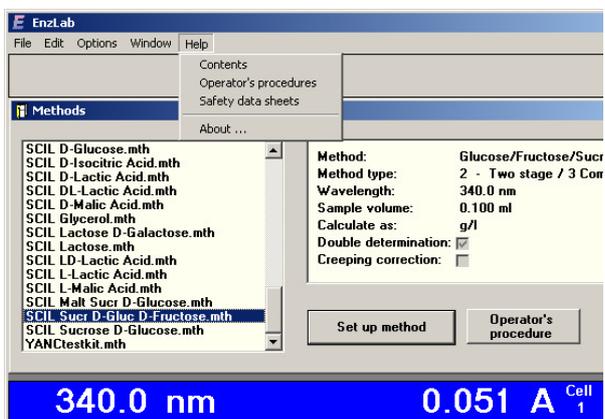


## EnzLab Software Your Software Assistant for Enzymatic Food Analysis

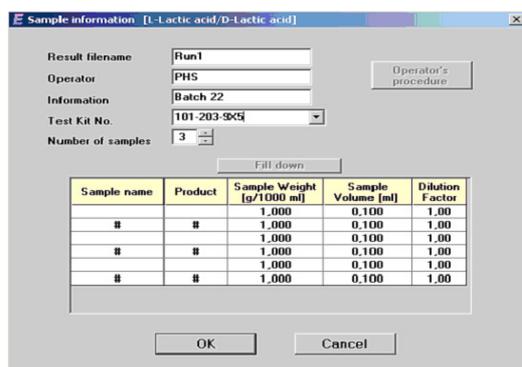
The EnzLab software package is a program tailored to the procedures of enzymatic food analysis with reagent kits. Based on a standard laboratory Thermo Scientific® or PerkinElmer® UV/Vis spectrometer, EnzLab automates and substantially facilitates enzymatic determinations, it ensures safe data transfer and correct calculations and it provides appropriate analytical reports.

Thus an EnzLab system fulfills the requirements for the modern, controlled laboratory and at the same time increases the sample throughput. The user also has extensive options to adapt methods and reports to his specific requirements:

- ✓ **Predefined methods and operation procedures for all standard enzymatic test kits**
- ✓ **Documentation of the measurement with operator name, test-kit no., etc.**
- ✓ **Entry of sample volume, dilution, weight and description for each sample**
- ✓ **Automatic calculation with optional double determinations and creeping correction**
- ✓ **Fully documented report with raw data, sample information and final results**



EnzLab Methods Selection Window



EnzLab Sample Definition Window

### EnzLab Spectrometer Version: The UV/Vis-Spectrometer Automation

The **EnzLab online spectrometer version** communicates with a standard Thermo Scientific or PerkinElmer lab UV/Vis spectrophotometer with an optional cell changer to

- set up measurement conditions,
- Automatically transfer required absorbance data at the necessary time points.

Thus measurement and evaluations are performed automatically and typical errors of data transfer and calculations are avoided. With a cell changer installed, several samples can be run at a time. With multiple installations of EnzLab, also different tests can be run in parallel.

### EnzLab SE: The Security Edition

The **EnzLab SE** version satisfies the extended FDA requirements in terms of data security and traceability following 12 CR Part 11 definitions. Thus the version is designated for use in pharmaceutical laboratories.

### EnzLab manual: The Economical Solution

The **EnzLab manual** version offers the same functions and convenience of use, but only takes manually entered readings from stand-alone spectrometers/photometers. This is done with a table configured according to the measurement or alternatively with input prompts at the appropriate time points. Updating to an automated system is easily possible.

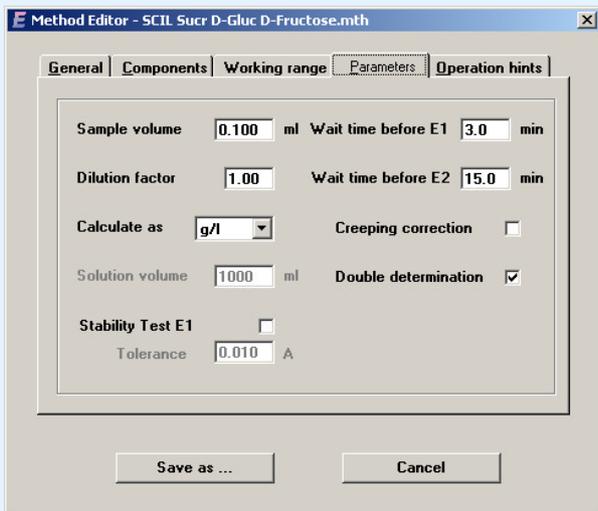
### EnzLab System:

#### The comprehensive Spectrometer-System

The **EnzLab System** represents the comprehensive ready-to-use solution for enzymatic food analysis. It includes – besides EnzLab – the powerful Thermo Scientific Evolution 100® UV/Vis-spectrophotometer with 7-fold cell changer and the **VISIONlite®** applications software.

Besides automated enzymatic analysis, the spectrometer thus is universally applicable for other application with the **VISIONlite** software, e.g. quantitative photometric analysis or color evaluations using the *ascanis* OptLab-SPX software.

You find detailed information about EnzLab on our website [www.ascanis.com](http://www.ascanis.com). Please request further information directly. A demo CD is available.



EnzLab methods editor

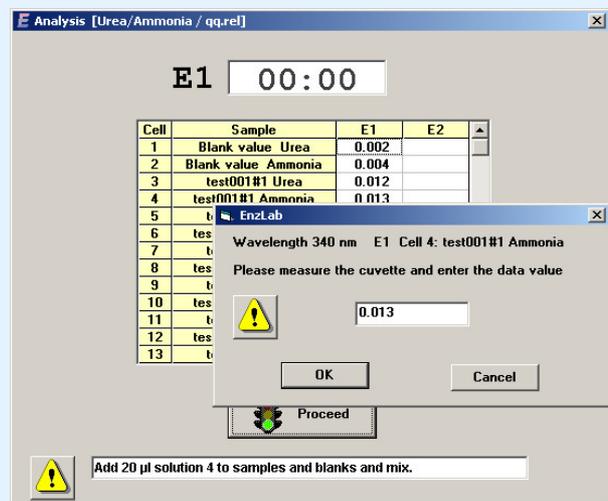
The **EnzLab method editor** is used to vary existing methods and to create new methods. Besides basic settings like the measurement wavelength, analysis factor and measurement times, further selections and definitions can be done, e.g.:

- component names and working ranges,
- concentration units of results,
- working range for each component,
- automated creeping measurement and creeping correction,
- test for E1 stability,
- operation hints for each operation step and documents related to the analysis, like material safety data sheets.

Each method is saved as a file. With **EnzLab SE** method modifications and results have to be signed and a method audit trail is maintained.

The **EnzLab runtime window** shows all cells in a table, which are required for the specific test and the number of samples. With a cell changer this table is used for positioning the cells into the holder. During the analysis, **EnzLab** counts down the time until the next measurement, performs the measurement automatically and enters the readings to the table. Thereafter the system will prompt the user for the next working step.

With **EnzLab manual** with time control the entry of a reading is prompted with a window (see right). Alternatively entry of all readings into a comprehensive table is offered.



EnzLab runtime window (manual mode)

Cell	Sample	E1 [A]	E2 [A]	E3 [A]
1	Blank value	0.056	0.066	0.076
2	Sample001#1	0.317	0.665	0.813
3	Sample001#2	0.314	0.659	0.824
4	Sample002#1	0.298	0.487	0.615
5	Sample002#2	0.302	0.498	0.605
6	Sample003#1	0.203	0.504	0.703
7	Sample003#2	0.207	0.499	0.930
8	Sample004#1	0.128	0.450	0.923
9	Sample004#2	0.133	0.453	1.003

Sample name	Sample volume [ml]	Dilution Factor	Component	Result [g/l]
Sample001#1	0.100	1.00	L-Lactic Acid	0.045
			D-Lactic Acid	0.108
Sample001#2	0.100	1.00	L-Lactic Acid	0.050
			D-Lactic Acid	0.107
Mean value L-Lactic Acid				0.047
Mean value D-Lactic Acid				0.108

EnzLab report for D-/L-Lactic Acid

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The **EnzLab analytical report** includes the sample documentation, absorbance readings and results. Samples with concentrations exceeding the working range, with absorbance differences below the minimum setting or samples with an inconsistent creeping reaction are designated accordingly.

Both header and footer of the report are user-configurable, as well as the font size and the printout footnote.

**EnzLab** reports can be printed and can be stored. By configuration, results can also be recalculated with modified parameters. Stored reports can be recalled with the software. The reports are readable by other processing programs (not **EnzLab SE**). With EnzLab SE result and method files are coded and protected via checksum.