

VISION^{lite} EnzLab Software

Use your Thermo Scientific™ GENESYS™ 40–180 or Thermo Scientific™ Evolution™ Series Spectrophotometer to perform enzymatic food analysis testing with ready-to-use reagent kits

Thermo Scientific™ VISION^{lite}™ EnzLab Food Analysis Software offers predefined methods and operation procedures for all standard enzymatic test kits including Citric Acid, Lactic Acid, D-Glucose, D-Fructose, Ethanol, Lactose and many more (Figure 1). With full Thermo Fisher Scientific spectrophotometer and accessory support, EnzLab automates enzymatic determinations, ensures safe data transfer and correct calculations, and provides appropriate analytical reports (Figure 2).

EnzLab simplifies analysis, increases sample throughput, and includes extensive options to adapt methods and reports to specific requirements including:

- Documentation of the measurement with operator name, test kit number, 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 results

Customize Analytical Methods

Using the EnzLab method editor allows modifying existing methods and creating new methods. Besides basic settings like measurement wavelength, analytical factor, and measurement times, additional parameters can be customized including:

- Component names and measurement ranges
- Concentration units
- Automated creeping measurement/correction
- Test for E1 stability
- Operation hints for each step
- Accessible documentation (published procedure, material safety data sheets)

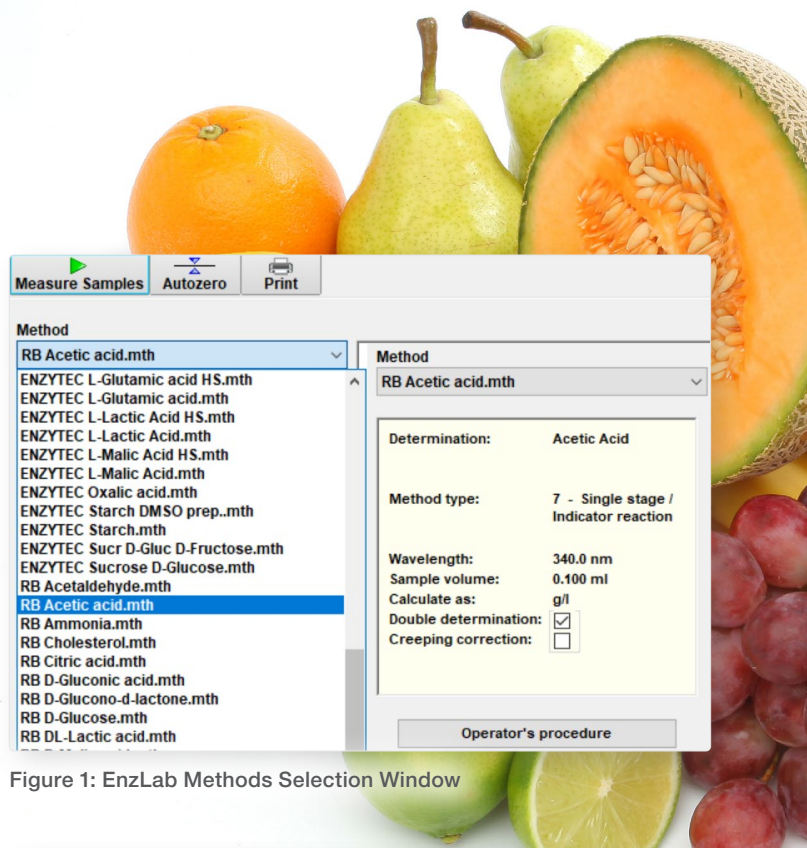


Figure 1: EnzLab Methods Selection Window

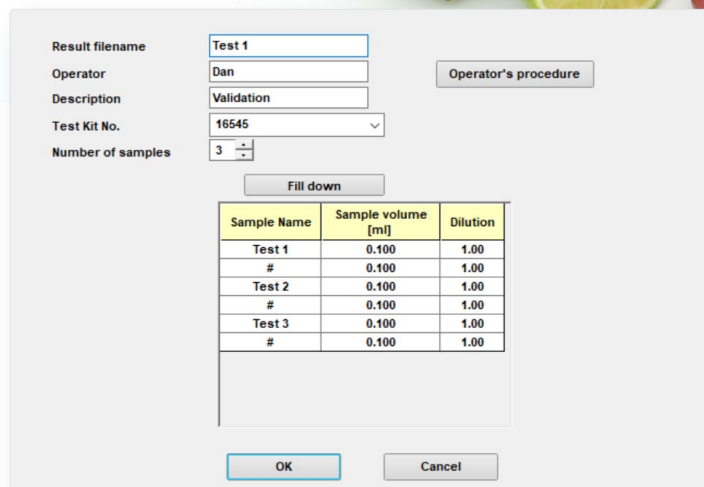


Figure 2: EnzLab Sample Definition Window

Simplified Data Collection

The EnzLab runtime window shows all the measurements in a table that will be performed during the sequence. This table can be used with an optional cell changer for sample positioning in the holder. During the analysis, EnzLab counts down the time until the next measurement, performs the measurement automatically, and enters the readings in the table. At each stage the software will prompt the user to perform the next step (Figure 3).

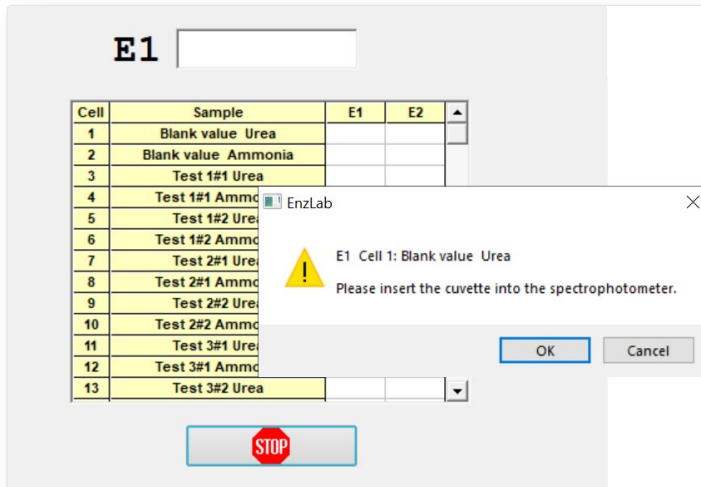


Figure 3: EnzLab runtime window

Supported instruments

- | | |
|---------------------|---------------------|
| • GENESYS 40 & 50 | • Evolution 201 |
| • GENESYS 140 & 150 | • Evolution 220 |
| • GENESYS 180 | • Evolution 260 Bio |
| • BioMate 160 | • Evolution 350 |

Product Information

Description	Part Number
VISIONlite EnzLab Software	869-191600
Interface cable for GENESYS 40–180 & BioMate 160	840-312200



Thermo Scientific GENESYS 50 Spectrophotometer

Find out more at [thermofisher.com/visionlite](https://www.thermofisher.com/visionlite)

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Comprehensive Reporting

The EnzLab analytical report includes the sample documentation, readings, and results. Samples with concentrations exceeding the defined working range, with absorbance differences below the minimum setting, or samples with an inconsistent creeping reaction are designated accordingly (Figure 4).

Enzlab report formats are highly configurable and can be printed or recalled later in the software.

The screenshot shows the EnzLab analytical report for D-/L-Lactic Acid. It includes a header for the report, a table of raw data with columns for Cell, Sample, E1 [A], E2 [A], and E3 [A], and a summary table with columns for Sample name, Sample volume [ml], Dilution Factor, Component, and Result [g/l].

Cell	Sample	E1 [A]	E2 [A]	E3 [A]
1	Blank value	0.056	0.066	0.076
2	Sample0001#1	0.317	0.665	0.813
3	Sample0001#2	0.314	0.659	0.824
4	Sample0002#1	0.298	0.487	0.615
5	Sample0002#2	0.302	0.498	0.635
6	Sample0003#1	0.203	0.504	0.703
7	Sample0003#2	0.207	0.499	0.930
8	Sample0004#1	0.128	0.450	0.923
9	Sample0004#2	0.133	0.453	1.003

Sample name	Sample volume [ml]	Dilution Factor	Component	Result [g/l]
Sample0001#1	0.100	1.00	L-Lactic Acid	0.045
			D-Lactic Acid	0.108
Sample0001#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

Figure 4: EnzLab report for D-/L-Lactic Acid

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