



Work smarter, not harder

Thermo Scientific™ GENESYS™ Smart QC Software can make your UV-Vis analysis smoother and easier

GENESYS Smart QC software provides a simple way to pass judgement on a sample being tested by UV-Vis spectroscopy, delivering a straightforward functionality not readily available from other manufacturers.

With GENESYS Smart QC software, UV-Vis analysis methods can be customized to deliver simple pass/fail assessments based on your specific guidelines. This limits the risk of misinterpreting data and speeds the time to action by streamlining decision-making points for users at all levels .

The size, simplicity, and cost-effective operation of a UV-Vis spectrophotometer and the range of tests available make it an ideal instrument for industrial QA/QC labs, especially those performing food and beverage analysis.

Get simple, actionable results within seconds

The GENESYS Smart QC software package takes a twofold approach: It utilizes PC-controlled method development, followed by locally controlled method deployment on the desired analytical instrument. The local control is intended to be as simple as possible, employing a clear, simple interface to limit the amount spectral interpretation required of the user.

An analyst can use a personal computer (PC) to custom design a set of equations and designate how the data obtained on the local spectrophotometer should be interpreted. The customized method can then be transferred to a GENESYS UV-Vis Spectrophotometer in the lab, which allows the local operations to be performed by lab techs regardless of familiarity with UV-Vis analytical methods. A typical result of the pre-programmed method could be as basic as a PASS/FAIL readout.

The GENESYS Smart QC software solution is ideal for quality control settings—especially ingredient control—and can be used anywhere where a simple instrument read-out with limited interpretation is required.

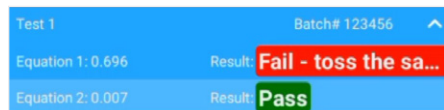
GENESYS Smart QC Workflow



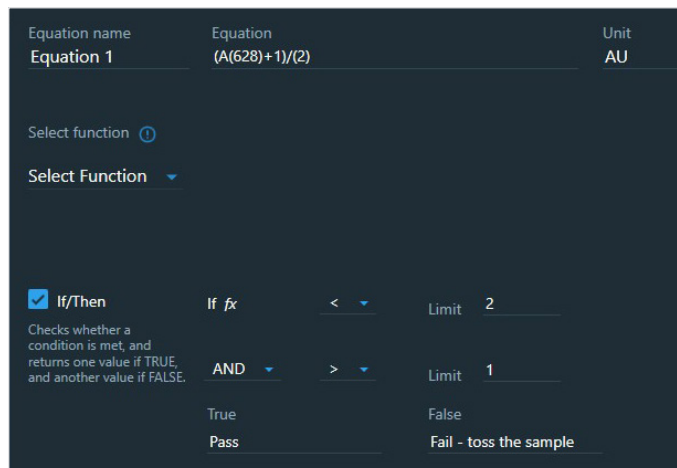
Make it work for you

A hypothetical example of GENESYS Smart QC software's in action

Imagine that you are manufacturing a flavored carbonated beverage like an energy drink. In such a beverage, the amount of caffeine is crucial to the finished product: Either too much or too little of the active ingredient could be troublesome. The beverage company is looking for a SIMPLE method for a QC tech to understand if sample is acceptable. With GENESYS Smart QC, a test method can be developed on a PC by an experienced scientist. This method could state that the absorbance at a specific wavelength should be measured—for instance, 273 nm, the wavelength where caffeine has a distinct UV signature. The value should register within a certain range for the sample to be considered acceptable, neither too high or too low. The results of the test could be displayed as a simple “Pass” or “Fail,” or the logic equation could even give specific instructions for next steps (e.g., “Toss the sample” or “Levels too high - Alert production line!”).



Result screen from GENESYS local control with GENESYS Smart QC.



GENESYS Smart QC PC control equation builder.

The software-enabled process leaves less to chance and helps your QC lab work more efficiently and effectively, with GENESYS Smart QC software customized to ensure your products match your standards.

Whether you work in the food & beverage field, industrial QA/QC, or academia, Thermo Scientific GENESYS Smart QC Software is ideal for anyone who can benefit from simple judgement readouts.

GENESYS UV-Vis Spectrophotometers

A proven instrument for demanding QC labs, GENESYS UV-Vis Spectrophotometers make getting answers quick and easy—no technical experience needed.

GENESYS Smart QC software is compatible with the following models of GENESYS spectrophotometers:

GENESYS 40 Visible Spectrophotometer	840-297000
GENESYS 50 UV-Vis Spectrophotometer	840-298000
GENESYS 140 Visible Spectrophotometer	840-308000
GENESYS 150 UV-Vis Spectrophotometer	840-300000
GENESYS 180 UV-Vis Spectrophotometer	840-309000
GENESYS Smart QC	837-004500

NOTE: GENESYS Smart QC requires a serial number to work with GENESYS, and such, users must purchase as many packages as instruments they have. Software is compatible for Window 10 Professional 64 bit and Windows 11.



Learn more at thermofisher.com/smartqc