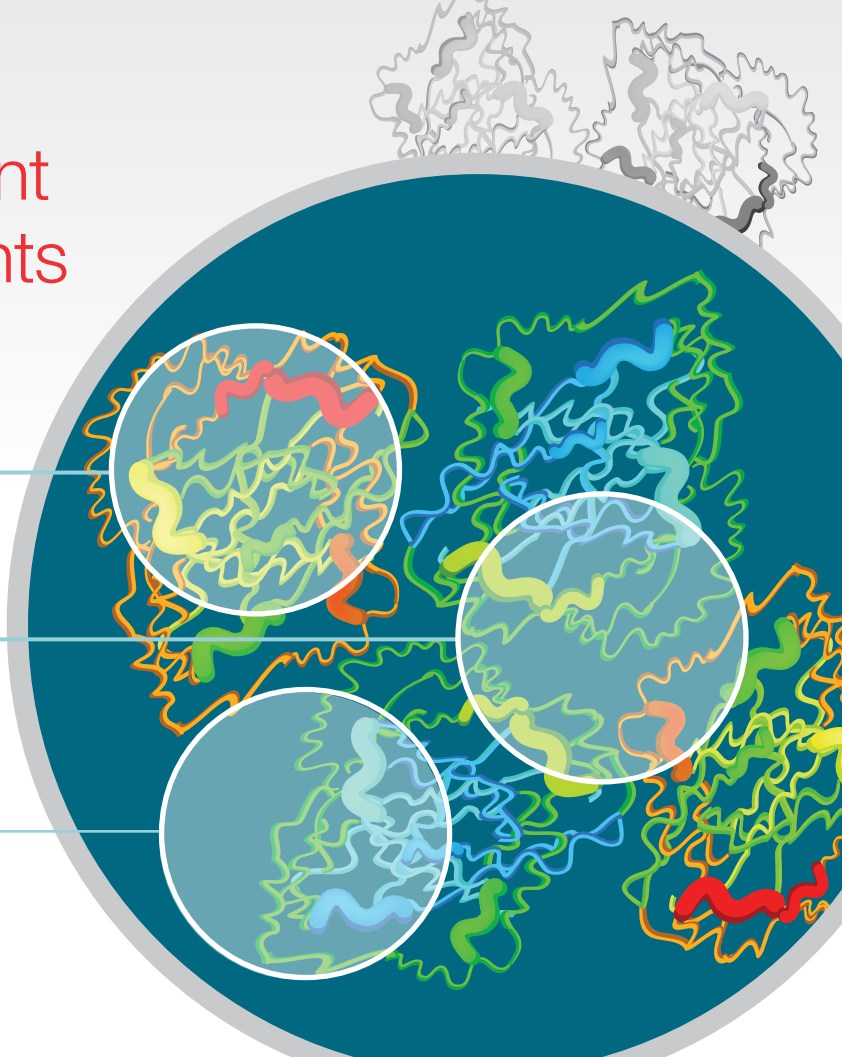


Fully-automated enzyme assay analysis

Enzymes play a pivotal role in a wide variety of industries. They not only speed manufacturing, they can improve quality, reduce waste, and optimize product yield—ensuring more cost-efficiency and higher profitability.

Three important enzyme measurements

- 1 Enzyme activity
- 2 Enzyme assay
- 3 Enzyme kinetics



Enzyme assay analysis helps to:

- Solve specific industrial problems
- Innovate new formulations
- Expand enzyme applications
- Ensure enzyme stability
- Develop new substrates and ligands
- Improve yield and consistency
- Boost profitability

Enzymes play a pivotal role in a wide variety of industrial applications



Walkaway efficiency: Automate your enzyme assay analysis and reduce hands-on time

Fully-automated enzyme assay analysis

VS

Traditional spectrophotometry

Automated steps

Place samples and reagents solutions

Choose method—start—walk away

Up to 350 results per hour

Manual steps

Sample addition

Heating bath

Substrate addition

Wait time

Inhibitor addition

Spectrophotometer measurement

~One result every 30 minutes

Up to 350 results per hour

2 results per hour

Limitations

- Many manual steps
- Inconsistent results
- Time-consuming method development
- Large reagent consumption
- Occupied lab personnel
- Expertise required

Top FIVE reasons to consider fully-automated enzyme assay analysis

1 Confidence in results

- Precise temperature control
- Temperature overheating limits
- Accurate incubation time in seconds eliminates manual errors
- Superior temperature control and lack of edge effects



2 Reproducibility

- Fully-automated liquid handling sample/buffer/substrate addition and mixing
- Disposable cuvettes (no carryover)
- Smart incubation temperature



3 Higher productivity

- Quick startup and walkaway solution
- Easy to use, train and maintain
- Many enzymes, many substrates, many methods—all on a single instrument



4 Fully automated workflow

- Easy, automated method development
- Easy method transfer
- Enzyme-specific method parameters in one central place



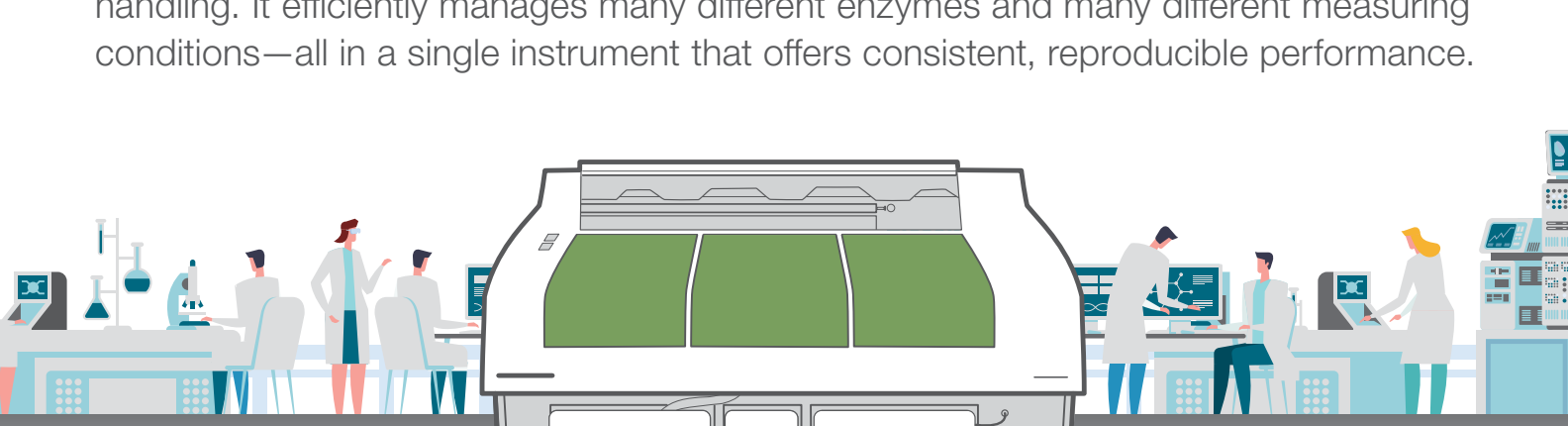
5 Traceability

- Time stamped raw data
- Audit trail
- User administration



Solution: Thermo Scientific™ Gallery™ Enzyme Master Enzyme Analyzer

A fully-automated enzyme analyzer that automates the critical steps involved in reliable enzyme analysis, including incubation time, incubation temperature, and precision liquid handling. It efficiently manages many different enzymes and many different measuring conditions—all in a single instrument that offers consistent, reproducible performance.



Find out more at thermofisher.com/enzymeanalysis

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