



## Data Capture and Analytics Solutions to speed your Food, Flavor and Fragrance Innovations to Market

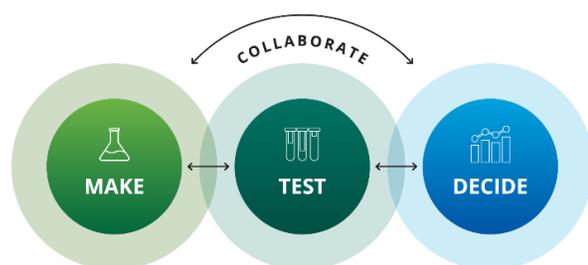


Figure 1. Make-Test-Decide innovation cycle used in product R&D.

PerkinElmer Informatics' solutions for food, flavor, and fragrance accelerate R&D innovation, enabling new ingredients and products to reach the market rapidly, reliably, and with maximum ROI.

New chemical advances in food, flavor, and fragrance must address emerging market needs to ensure customer adoption and ultimate satisfaction. Manufacturers strive to meet these needs with novel, healthy, and high-quality products while decreasing production costs and time to market.

Today's consumers demand a better sensory experience, whether they're encountering new and exciting flavors in foods and beverages or using scented personal or home care products. In addition, there is an increased demand for healthier foods, and more transparent ingredient labeling so consumers can make informed buying choices.

Whether your focus is manipulating volatile molecules to develop new aromas or creating novel coating applications that ensure purity and freshness, you need to be highly efficient throughout the Make-Test-Decide innovation cycle. When conducting tests and analyzing results in the development of new formulations or modification of existing ones, you also need the insights and flexibility to pursue secondary options if they offer a better payoff.



Request a Demo Today!

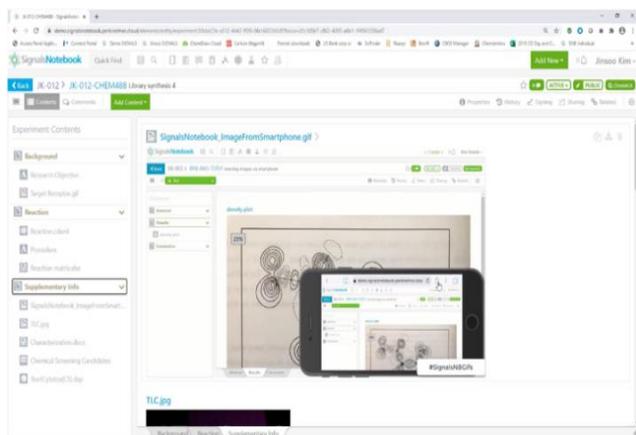


Figure 2. Store your research files in one platform for integrated access.

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## Informatics designed to address your food, flavor, and fragrance chemical research pain points

- Does it take too long to develop novel formulations, or modify existing ones to suit new applications or parameters?
- Does the volume of formulations and ingredients make search and retrieval of data too time- and labor-intensive?
- Is your work delayed because scientists don't know what materials are available in-house, what needs to be ordered, and what it should cost?
- Is it difficult to determine if ingredients and formulations meet specified test criteria?
- Is inefficient management of people, samples, instruments, and other resources interfering with timely, high-quality testing?

PerkinElmer Informatics' data capture and analytics solutions speed up, data processing, decision making, and material tracking—as well as vastly improving overall data analytics—to give you greater agility when responding to innovation challenges and changing market demands.

## A data management recipe for rapid R&D innovation and reduced risk

Making commercially viable food, flavor, or fragrance products is time-consuming if the way you handle data has not kept pace with the evolving demands of your business and marketplace.

PerkinElmer Informatics' advanced R&D data management solutions help your chemists and flavorists more efficiently answer their most urgent questions throughout the Make-Test-Decide innovation cycle such as:

- Which ingredient, aroma, or taste type to pursue
- Which type of chemical structures they should explore
- Whether a difficult-to-make ingredient can be synthesized cost-effectively
- If new ingredients have a unique attribute that cannot be obtained any other way
- How new ingredients can be combined with others to create a unique experience
- How the final fragrance or flavor performs in various formulations
- Which ingredients have different behaviors in certain consumer products or foods
- How stable the fragrance or flavor in the product can be over time
- Which coatings can best protect against cross-contamination, bacteria, and pathogens
- What ingredients enable customers to make novel, environmentally friendly products faster, and in less time to market.

## Get ahead. Stay ahead. And leave the competition behind.

Join leading companies in the food, flavor, and fragrance sector who are using PerkinElmer Informatics solutions to refine their innovation process.

Our solutions enable you to:

- Increase efficiencies by recording experiments in a common digital platform.
- Implement leading data management techniques for real-time analysis.
- Transform data into insights with smart analytics.

Take control of your data keep pace with consumer demand for new tastes and aromas in a safer, healthier, and ever-changing marketplace, at:

<https://perkinelmerinformatics.com/solutions/food-flavor-fragrance>

## Overcome R&D roadblocks

PerkinElmer Informatics' data capture and analytics solutions will help you overcome seven common R&D challenges in food, flavor, and fragrance R&D innovation:

01	Speed to market	
02	Process improvement	
03	Cost of materials	
04	Translating unmet market needs	
05	Intellectual property protection	
06	Quality Control	
07	Regulatory compliance	

End-to-end data capture, management, and analysis guide your food, flavor, or fragrance R&D teams to invest in the right formulations, collaborate effectively, and make well-informed decisions

- Built to deliver specific end-user functionality to support Make-Test-Decide workflows for smoother collaboration.
- Best-in-class advanced analytics.
- Data for analytics is automatically associated together to provide holistic insights.
- Experimental narratives captured to protect IP and available for learning through the enterprise.
- Faster product development with fewer failures through collaboration and information sharing.
- Scalable from small operations to enterprise companies across multiple locations.

## Powerful, highly scalable, and refined for your needs

Our solutions accelerate your innovation by helping you understand the relationships between components and product performance and enabling you to make insightful decisions based on predictive modeling.

- A complete, consistent, and collaborative environment that meets the scientific and technical needs of your organization and users.
- Faster data capture, data processing, decision making, and material tracking.
- Data analytics that enable greater flexibility to respond to market demands.
- Access to audit trails and other information related to security regulations for proof your systems, data, and IP are secure and compliant.
- Improved business continuity, with efficient knowledge transfer in the event of job moves and attrition.
- Powerful, highly scalable, and intelligent, our solutions leverage PerkinElmer Informatics' decades of experience in designing solutions for real-world problems.

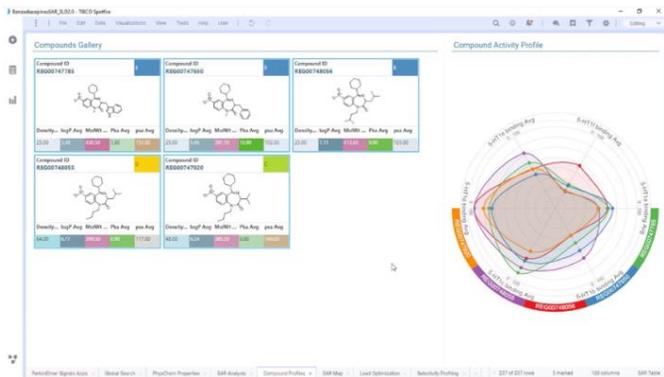


Figure 3. Visualization tools to compare formulations.



## Integrated solutions to accelerate R&D

Each of PerkinElmer Informatics' food, flavor, and fragrance sector solutions targets specific information roadblocks that stand between you and your marketplace. Together, they offer an end-to-end ability to capture, manage, and analyze data so you're making the best choices at every process milestone.

### Signals™ Notebook for frictionless collaboration

Improve productivity and data transparency through enhanced collaboration, improved workflows, and lab automation with the only future-proof ELN solution that covers a comprehensive set of scientific use cases, spanning chemistry, formulations, analytical testing, and more.

### Signals™ Notebook manages materials use

Automate inventory management within Signals Notebook, easing user experience and accuracy as they look up, link to, and update materials required for their experiments.

### Signals™ Inventa powers faster decisions

Quickly access and analyze all scientific results collected throughout the research and development lifecycle with our a next-generation data management system and fine tune your R&D performance.

### TIBCO® Spotfire® fuels data-based insights

Make data-driven decisions in record time with everything you need to prioritize work in the lab, from enterprise-class visual analytics and discovery platform to predictive analytics.

### ChemDraw® delivers high-performance management, reporting, and presentation

Perform quick structure searches across all chemical information and manage collections of molecules and/or reactions with their associated properties using the chemicals industry's gold standard for communicating chemistry research.

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