

# R&D Data Management and Intelligence Solutions to Speed Your Food Science Innovations to Market

revvity  
signals

By Revvity Signals

📅 December, 2025

## Introduction

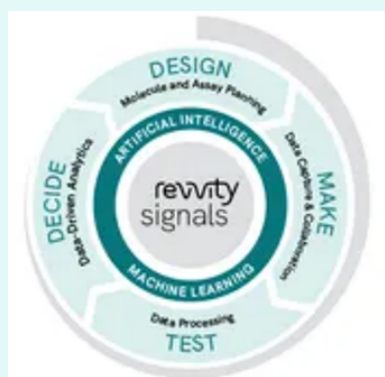
Revvity Signals' solutions for food science accelerates R&D innovation, enabling new ingredients and formulations to reach the market rapidly, reliably, and with maximum ROI.

Innovations in food science are driven by the need to meet evolving consumer expectations and market demands. To win customer adoption and loyalty, food science companies must deliver products that are not only healthier and higher in quality but also faster and more cost-efficient to bring to market.

Today's consumers are more discerning than ever. They want unforgettable sensory experiences—bold and exciting flavors, refreshing beverage profiles, or captivating scents in personal and home care products. At the same time, they demand healthier choices and transparent ingredient labeling that empowers them to make confident, informed decisions.

Whether it's unlocking new aroma possibilities through volatile molecule design or developing advanced coating applications that ensure purity and freshness, success comes from excelling across the entire Design-Make-Test-Decide innovation cycle. With the right tools and strategies, you can bring breakthrough products to market faster—delighting customers and staying ahead of the competition.

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.



R&D Data Management and Intelligence  
Solutions

[Request a Demo!](#)



Figure 1. Visualization tools to compare formulations

Revvity Signals' 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.

### Integrated solutions to accelerate R&D

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

## R&D data solution designed to address your food science formulation research pain points:

- Does it take too long to develop novel formulations, or modify existing ones to suit new applications or parameters?
- Are your teams spending too much time and effort searching through countless formulations and ingredients to find the data they need?
- Are project timelines delayed because scientists lack visibility into which ingredients are in stock, what must be ordered, and their associated costs?
- Is it difficult to determine if ingredients and formulations meet specified test criteria?
- Are testing timelines and quality compromised by inefficient management of people, samples, instruments, and resources?

With Revvity Signals' data capture and analytics solutions, you can process data faster, make smarter decisions, and track materials more effectively—all while strengthening your analytics to stay agile in the face of innovation challenges and evolving 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.

Revvity Signals' advanced R&D data management solutions help your food scientists and technologists more efficiently answer their most urgent questions throughout the Design-Make-Test-Decide innovation cycle such as:

- Which ingredient, aroma, or taste type to pursue?
- How to formulate next-generation food recipes that satisfy both wellness needs and sensory appeal?
- 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 profile performs in various formulations?
- Which ingredients have different behaviors in certain consumer products or food?
- How stable the ingredients in the product can be over time?
- Which packaging material can best protect against cross-contamination, bacteria, and pathogens?
- What ingredients enable formulators to make novel, environmentally friendly products faster, and in less time to market?

*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.*

- Jun Liu

Product Marketing Lead, Food Science, Revvity Signals

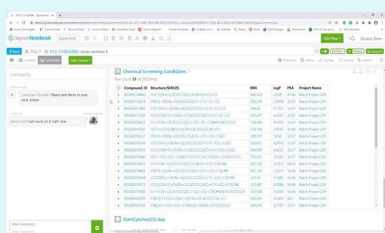


Figure 3. Store your research files in one solution for integrated access.

## Overcome R&D roadblocks

Signals One, Revvity Signals' software solution for food science, will help you overcome seven common R&D challenges in food, flavor, and fragrance R&D innovation:

- Experimental and project 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.

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	

*Revvity Signals' data capture and analytics solutions*

## 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 Revvity Signals' decades of experience in designing.



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

Join leading companies in the food science sector who are using Revvity Signals solutions to refine their innovation process.

Our solutions enable you to:

- Increase efficiencies by organizing structured R&D data in a common digital solution.
- 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://revvitysignals.com/solutions/food-flavor-fragrance>

## Conclusion

What you need is an intuitive, intelligent, and integrated environment that meets the scientific and technical needs of your organization.

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

- Integrated workflows to foster collaboration.
- Best-in-class visual/advanced analytics.
- Holistic insights from automatic data association.
- IP protection with capture of experimental narratives that are available for learning.
- Faster product development, with fewer failures, through collaboration and information sharing.
- Scalability from small operations to global enterprise companies.

Take control of your data, and fast track better ROI for your R&D, at <https://revvitysignals.com/solutions/food-flavor-fragrance> and [request a demo](#) today!



[revvitysignals.com](https://www.revvitysignals.com)

77 4th Avenue

Waltham, MA 02451 USA

P: (800) 762-4000 (+1) 203-925-4602



Revvity Signals



RevvitySignalsSoftware



revvitysignals



Revvity\_Signals



RevvitySignals