

# Springer<sup>®</sup> Precursor 401



Discover **our new yeast extract rich in sulfur compounds** to develop **vegan** and **natural red meat flavors** through Maillard reaction.

UDUG UDUGAN VEGAN NATURAL NUTURAL NUTU Scan below to learn more







# Consumers increasingly demanding when it comes to healthy eating

# + 72%

are choosing <sup>(1)</sup> natural products **to avoid** additives and preservatives as much as possible when 71% are willing to buy products that positively boost the nutrition or benefit how **the body** functions (e.g., high in protein, superfoods).



## And manufacturers are responding with innovations



#### Market value of clean label food and drink products worldwide

+ 51%

is the estimated 2026 market value growth<sup>(2)</sup> for clean label food and beverages.

<sup>(1)</sup> Innova Health & Nutrition Survey 2020 (average of 10 countries)
<sup>(2)</sup> BIS Research. (November 2022) – via Statista

## Natural food flavors market focus

The natural food flavors market is a fast growing market, representing a market value of 7,8 US \$Bn in 2022. This market is in expansion due to an increasing awareness about the **benefits of natural ingredients** and due to **regulations** regarding the use of artificial flavors in food products.



# Evolution of natural beef flavor and plant-based meat markets

The natural beef flavor and plant-based meat markets are two **markets in expansion**. The transition to **more sustainable food systems** is an important growth factor for both markets.



<sup>(3)</sup> Global Market Insights, 2023

(4) Transparency Market Research Study, 2021

<sup>(5)</sup> Straits Research, 2023

# Springer<sup>®</sup>Precursor 401

## A unique yeast extract to create authentic red meat flavors

Springer® Precursor 401's offer is unique in its composition and flavor profile:

- This product has a specific natural combination of amino acids<sup>(1)</sup>, peptides and key sulfur compounds<sup>(1)</sup>
- It allows development of specific beef and red meat notes in a cooking / Maillard reaction
- It contains high levels of free amino acids and especially free glutamic acid, bringing high reactivity and powerful flavor properties



## An innovative solution to help you meet your specific needs

#### Springer® Precursor 401, an ingredient with many benefits.

MEET YOUR CHALLENGES		DISCOVER OUR INGREDIENT'S BENEFITS
Create authentic vegan red meat flavors	$\rightarrow$	With its natural combination of amino acids, peptides and sulfur compounds, our yeast extract Springer <sup>®</sup> Precursor 401 can be used to create <b>your own vegan beef (&amp; other red meat) flavors</b> .
Use environmental friendly ingredients	$\rightarrow$	A fermentation-derived ingredient that <b>promotes the transition to more sustainable food systems</b> .
« Natural flavor » final labeling	$\rightarrow$	The final flavor can be <b>labeled as « natural flavor »</b> depending on: the process , other ingredients and local regulations.

### An ingredient that comes with the following guarantees



<sup>(1)</sup> Analytical data available, please contact us for further details

### Springer® Precursor 401 application: Maillard reaction

Use Springer<sup>®</sup> Precursor 401 with a source of reducing sugar and adjust the process parameters (time /  $pH/T^{\circ}$  / pressure / other raw materials) to **create an endless variety of beef and other red meat flavors.** 



### Reaction flavor example: Beef demo with Springer® Precursor 401



## Discover the rest of our Springer® Precursor range

A unique range **of yeast extracts**, selected and characterized, to **create authentic roasted and meat flavors** 

- A selection of yeast extracts that enable the development of specific notes during a cooking reaction
- A range dedicated to the development of authentic meat flavors
- Characterized yeast products to ensure efficiency in final application







# **Biospringer by Lesaffre brings expertise** with our Sensory Lab and Culinary Centers

### Sensory & flavor development expertise

Biospringer's Flavorists and Sensory Scientists are bringing high expertise and experience in **natural yeast ingredients** and serve to support innovation in consumer products that taste great and respond to new trends in the food sector.





### **About our Sensory Lab**

Our sensory scientists are using best practices to make sure that the **sensory data they collect is as robust, objective, precise and unbiased** as possible. Sensory tests are conducted by **highly trained sensory panelists** in purpose-built booths that provide a controlled environment for all aspects of product evaluation. Our Sensory Lab has developed an **objective analysis of sensory cues** that are not influenced by extrinsic factors such as branding or pricing.

Together, they have a deep understanding of:

How our products perform, both on their own and as part of the food matrix



Local requirements (technology, formulations, consumer preferences)



## NATURAL FERMENTATION-BASED SOLUTIONS FOR TASTIER AND HEALTHIER FOOD

Biospringer by Lesaffre is a **key player and global producer for the food industry,** with 10 production plants, a network of commercial teams and Culinary Centers around the world and a team of technologists and R&D. **Our natural origin ingredients from yeast fermentation** include yeast extracts, dried food yeasts, yeast-based flavors and yeast protein.





www.biospringer.com