# Innovazione di ingredienti per lo sviluppo di prodotti in linea con le attuali esigenze di consumo

## **EXBERRY<sup>®</sup>: Innovation in Coloring Foods**

EXBE

**AITA Webinar** 

**GROWING COLORS** 



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A.D.E.A.







# Key facts about GNT

GROWING COLORS



### GNT: market leader in coloring food with food

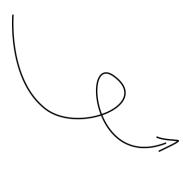




#### Coloring Foods – the natural color solution

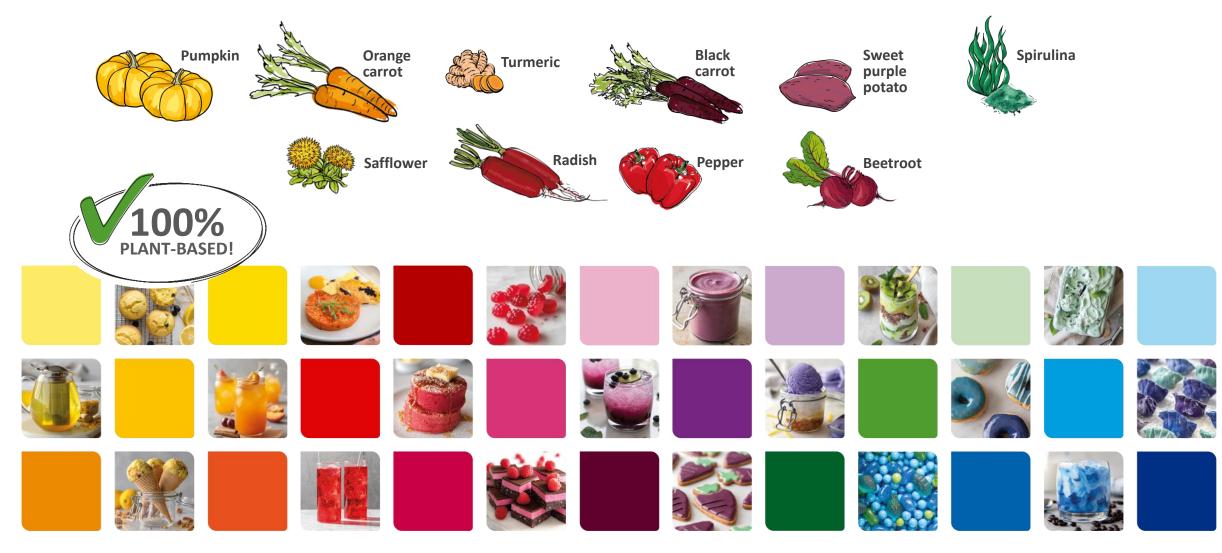
EXBERRY<sup>®</sup> is produced from fruits, vegetables and/or edible plants

- Processed only with water and no use of organic solvents
- Processed without selective extraction of the pigments
- No added artificial emulsifiers, preservatives, etc.





### GNT: market leader in coloring food with food



**EXBERRY**<sup>®</sup>

# EXBERRY<sup>®</sup> Shade Vivid Orange - OS

Bright orange shades with new vegan oil-based paprika product



GROWING COLORS



#### PRODUCT SPECIFICATION - EU EXBERRY® Shade Vivid Orange - OS GNT Product No. 11004401

EXBERRY® Shade Vivid Orange - OS is a food with coloring properties (so called Coloring Food). The paprika oil is produced by infusing paprika seed oil with paprika.

Manufacturing Manufactured from paprika Processed with water, sunflower oil and tocopherol-rich extract

Colouring Properties Colour Units, calculated (MSD10) Lambda max in standard medium

58.500 - 71.500 455 - 465

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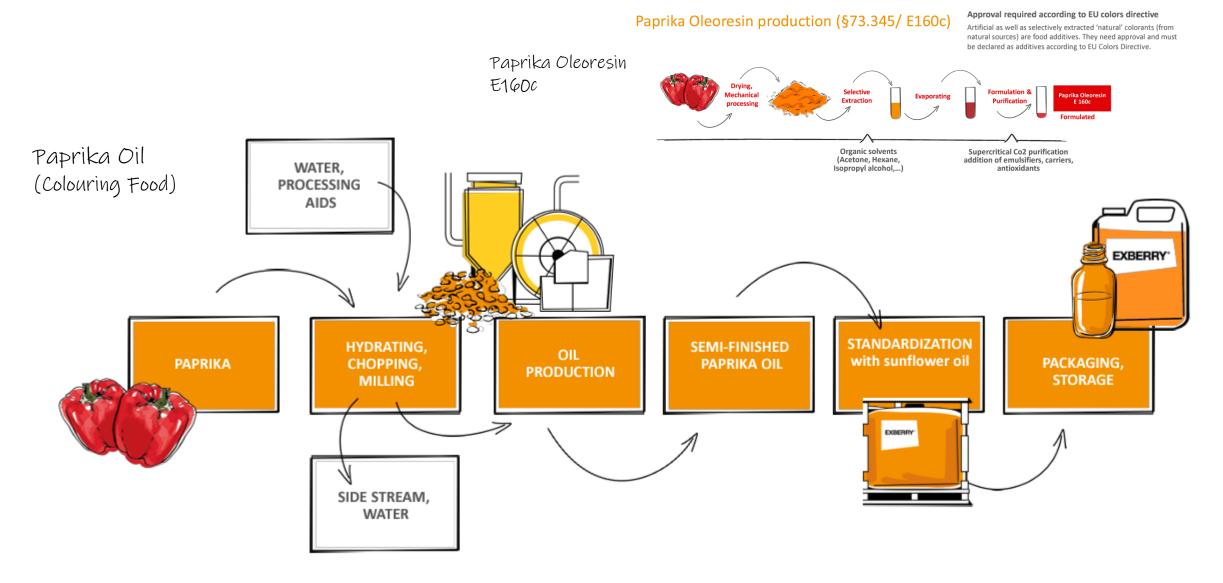
Introducing EXBERRY<sup>®</sup> Shade Vivid Orange – OS

- Made from paprika and sunflower oil EXBERRY<sup>®</sup> Shade Vivid Orange - OS is manufactured using physical processes and no chemical solvents.
- It is the first purely oil soluble EXBERRY<sup>®</sup>
  Coloring Food on the market
- The new EXBERRY<sup>®</sup> delivers exceptional results while supporting clean and clear labels. As such, it is an ideal solution for a wide range of applications such as snacks, fat-based sauces or chocolate compound



**EXBERRY**<sup>®</sup>

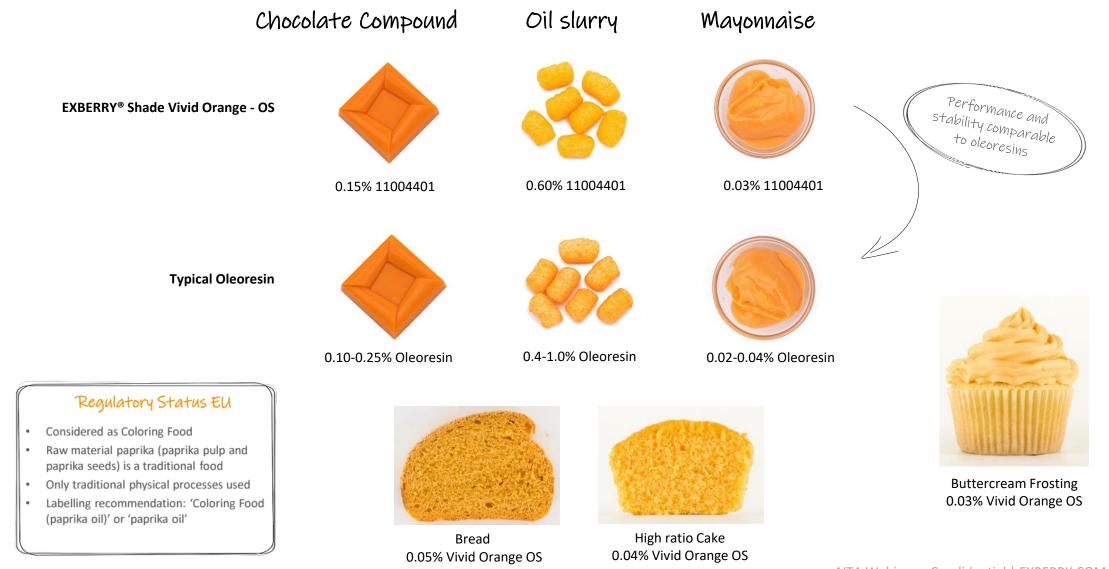
### Raw material to semi-finished concentrate



**EXBERRY**<sup>®</sup>



### **Comparing orange color products**



#### **FEATURES**

- Clean-label paprika oil
- **High** color intensity
- Processed without organic solvents
- classification as **food ingredient** in many markets

#### **BENEFITS**

- Good overall application performance
- Suitable for a board range of **fat-based** applications
- Label-friendly and preservative-free ۲

## **EXBERRY**<sup>®</sup>

DISCOVER THE

ADVANTAGES OF EXBERRY® " SHADE VIVID ORANGE - OS



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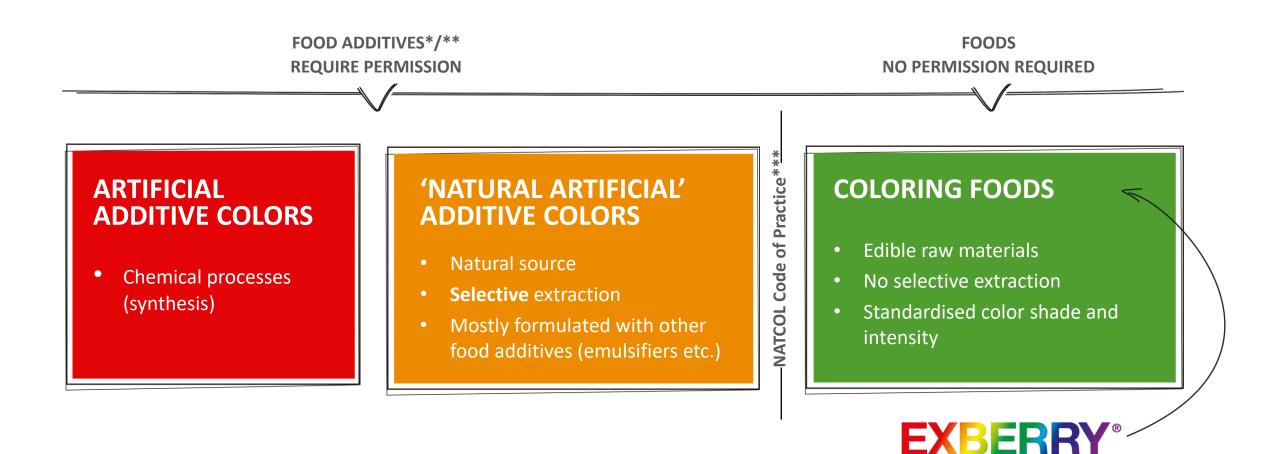


# Labelling & Plant Based Foods





### 'Natural' is not always so natural



\* REGULATION (EC) No 1333/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on food additives

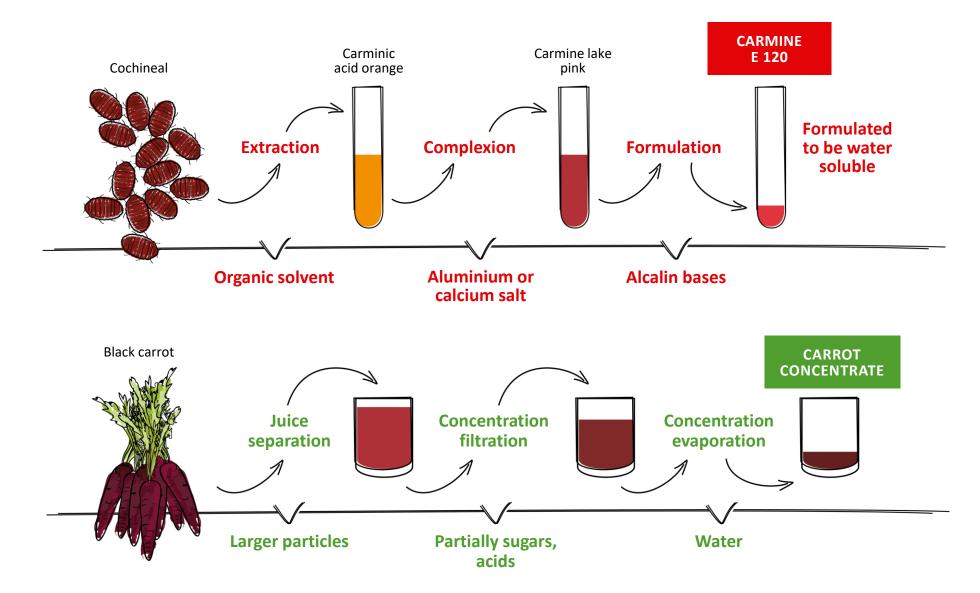
\*\* COMMISSION REGULATION (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II

and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

\*\*\* NATCOL Code Of Practice For The Classification, Manufacturing, Use And Labelling Of Coloring Foods (EU) 2021



#### **Coloring Foods versus additive colors**



#### **EXBERRY**®

#### Objective

#### The objective of the Code of Practice

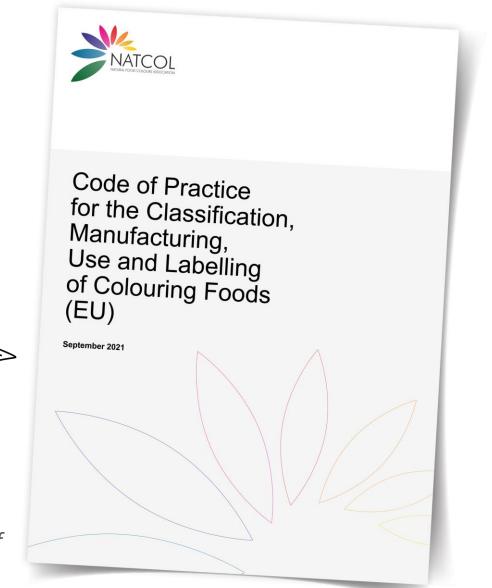
• Describe current industry practice

#### The Code

- Must be read in conjunction with the appropriate EU legislation
- Is intended to serve as a Business-to-Business support tool
- Includes the principles of the guidance notes
  + more information



Website: NATCOL\_CodeOfPractice\_FullDocument\_23\_09\_2021.pdf



### EU REGULATIONS – EXBERRY<sup>®</sup> HAS GOT IT COVERED

In the European Union, EXBERRY<sup>®</sup> concentrates are classified as food ingredients with coloring properties – 'Coloring Foods'

They are in full compliance with the requirements of a food ingredient with coloring properties as follows:

The source material is a food, which is normally consumed as such within the EU

The concentrates contain the characteristic nutritive and aromatic constituents of the source material

The concentrates are not selectively extracted\*

Independent inspection company SGS Institut Fresenius has verified that GNT's EXBERRY<sup>®</sup> Coloring Foods are not selectively extracted and therefore considered outside the scope of the food additive (color) definition as regulated in Regulation (EC) No 1333/2008.

\* According to Regulation (EC) No 1333/2008 and NATCOL Code of Practice for the Classification, Manufacturing, Use and Labelling of Coloring Foods (EU).



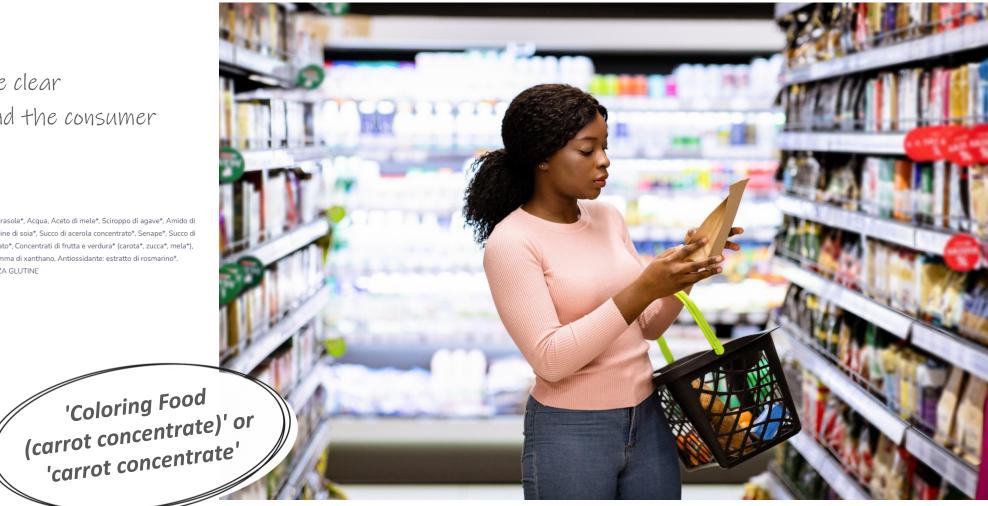


### **General Labelling of Coloring Foods**

#### The labelling must be clear and should not mislead the consumer

#### Ingredienti

Olio di semi di girasole\*, Acqua, Aceto di mele\*, Sciroppo di agave\*, Amido di mais, Sale, Proteine di soia\*, Succo di acerola concentrato\*, Senape\*, Succo di limone concentrato\*, Concentrati di frutta e verdura\* (carota\*, zucca\*, mela\*), Addensante: gomma di xanthano, Antiossidante: estratto di rosmarino\*, \*Biologico, SENZA GLUTINE





## Trend drivers

- People are putting importance in health, animal welfare and environment
- The sensory enjoyment of plant-based food plays a crucial role
- Sensory & taste are still crucial: product variety is growing with open-minded consumers. Nevertheless, they do not compromise on taste and indulgence

Color is the initial characteristic of a product giving a feeling of indulgence and flavor indications

Sources: Yumda, Innova Market Insights; FMCG Gurus



### Authentic Ingredients

- Non-GMO claims, artificial ingredients and protein content are the most checked details
- Consumers want reassurance that products are free from artificial and chemical ingredients
- They do not make simple assumptions based on appearance alone – they need a reliable proof
- Coloring Foods are the ideal solution to make plant-based products shine

68% of Europ the ingre

of European consumers **check the ingredient list** when buying plant-based products





### Sensory is essential

- Within plant-based food consumers are looking for textures, such as juiciness, tenderness, hardness and chewiness, that are similar to their animal-based counterparts
- An appropriate selection of ingredients and a texturizing process that will lead to the sensory properties is essential
- Regardless if a plant-based food is mimicking an animal-based counterpart or standing for its own, the appearance, taste and texture needs to please the consumer
  - Color is at the very heart of it

Super Sensory is predicted as a top trend for 2023-24

**EXBERRY**<sup>®</sup>



Sources: Mintel, FMCG Gurus, vegonomist.com

# EXBERRY<sup>®</sup> Compound Autumn Red & Fall Forest Red

This new EXBERRY<sup>®</sup> Compound range enables plant-based red meat to change color during cooking – from blood red to greyish well done

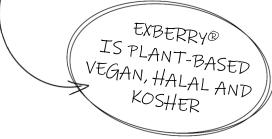
#### GROWING COLORS

**EXBERRY**<sup>®</sup>



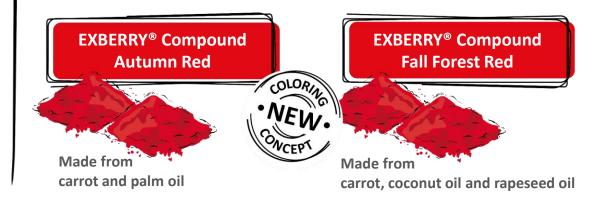
#### Introducing EXBERRY<sup>®</sup> Compound Red Range

- Made from carrot and vegetable oil, EXBERRY<sup>®</sup> Compound Autumn Red and EXBERRY<sup>®</sup> Compound Fall Forest Red are manufactured using physical processes and no chemical solvents
- It is the first Compound based on Coloring Foods on the market to transforms the color of plantbased meat during cooking
- The Compound Red Range delivers exceptional results while supporting clean and clear labels. As such, it is an ideal solution for a wide range of red meat alternatives



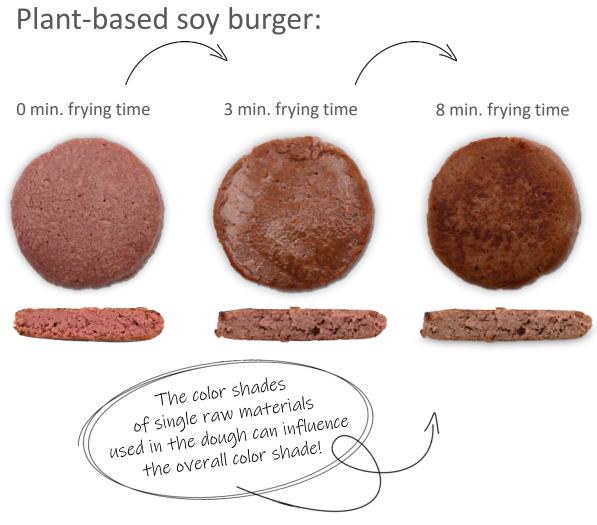
#### **TECHNICAL DATA**

Color shade	From blood red to greyish well done
рН	Dependent
Solubility	Not water soluble
Light stability	Very good
Shelf life	Shelf life 6 months at <10°C (50° F) 12 months at -18°C (0° F)





### Color appearance at different heating stages



The dosage levels of the plant-based burgers are the same



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