

# Plant-based ingredients to support today's lifestyle choices

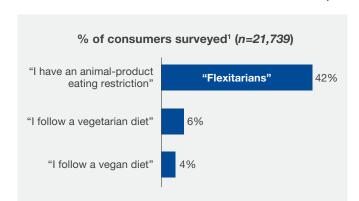
Xangold® Lutein



People around the world limit or increase specific foods for different compelling reasons. While halal/kosher/vegetarian diets are practiced in certain regions, dairy-free or gluten-free diets are often required due to intolerances. However, most people would likely fall into the category known as "flexitarians" – a combination of the words "flexible" and "vegetarian." What sets flexitarians apart is their freedom of choice - they freely switch between animal and non-animal-based products.

#### **Huge market potential in flexitarians**

According to a survey by Euromonitor, <sup>1</sup> 42% of global consumers are flexitarians. They are largely driven by concerns in three areas<sup>2</sup> which businesses can capitalize on:





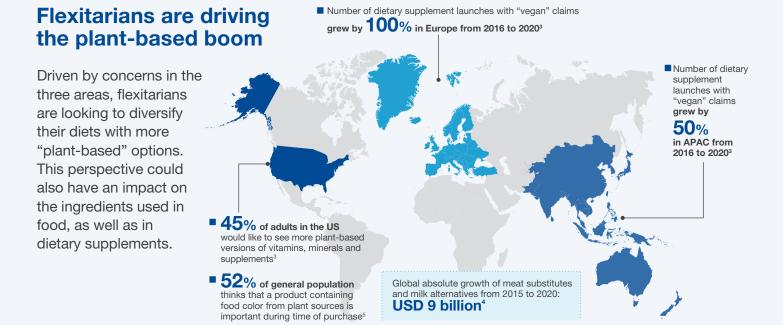
**Health:** They have certain perceptions about what animal-based products can do to their health. In general, eating less animal-based products and including more greens "makes them feel healthier".



**Environment:** Saving the environment by looking for sustainable sources of food is a motivation for the flexitarian consumer.



**Animal welfare:** Intensive farm production technologies that lead to stress and discomfort for animals have caused consumers to move away from meat consumption.



### A two-pronged approach is needed to develop a compelling narrative for flexitarians:

- 1. A clear outline of the company's philosophy on sustainability, ingredients used, processing methods and other product qualities
- 2. Label claims related to health, environment and animal-free ingredients

#### BASF's Lutein (Xangold®) is extracted from marigold flowers



- BASF's patented lutein ester extract from marigolds
- Naturally occurring ratio of lutein esters and zeaxanthin esters
- Manufactured by BASF's strategic partner in Ecuador, South America



 Strategic partnership provides BASF with long-term exclusive rights to supply Xangold<sup>®</sup> lutein esters for the global dietary supplement and functional food market



- BASF's control from crop to finished product through close partnership with our strategic partner and stringent specifications guarantees high quality products all the time
- Organic farming process in place for selected field/crop
- Extraction and purification process: Natural characteristics of lutein esters remain unaltered (no saponification)

## **Lutein** is positioned to support **healthy vision** in dietary supplements and functional food











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## Our products enable potential claims positioned for your plant-based dietary supplements and functional foods

Product	Form	Plant- based*	Naturally derived**	Vegan	Vegetarian	Dairy-free/ Lactose- free	Halal	Kosher	Non- GMO	Gluten- free	FSSC 22000
Xangold® 10% (Beadlet) & 10% (Beadlet)(HR)	Powder	<b>✓</b>	<b>√</b>			<b>√</b>			<b>✓</b>	<b>✓</b>	<b>✓</b>
Xangold® 10% CWD	Powder	<b>✓</b>	<b>✓</b>			<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Xangold® 10% GFB D-ORG HR	Powder	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>			<b>√</b>	<b>✓</b>	<b>✓</b>
Xangold® 10% GFB	Powder	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>		<b>✓</b>	<b>√</b>	<b>✓</b>	<b>✓</b>
Xangold <sup>®</sup> 20%	Powder	<b>✓</b>	<b>✓</b>			<b>✓</b>			<b>√</b>	<b>✓</b>	<b>✓</b>
Xangold <sup>®</sup> 15% & 30% OLV EU	Oil	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	✓	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>✓</b>
Xangold® 15% OLV EU	Oil	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>✓</b>

 <sup>\*</sup> Main / active ingredient originating from plants (including vegetables, fruits, whole grains, nuts, seeds, mushrooms and algae).
 May contain formulation ingredients not from plants

#### Position Xangold® for your plant-based innovation

**▼** Plant-based, natural, renewable

**▼** Suitable for flexitarians

Support of healthy vision

Sources: <sup>1</sup>Going Plant-Based: The Rise of Vegan and Vegetarian Food, Euromonitor 2020; <sup>2</sup>Choosing Substitutes: The Rising Tide of Non-Animal Proteins, Euromonitor 2021; <sup>3</sup>A year of innovation in VMS, Mintel, 2021; <sup>4</sup>Plant-based Eating and Alternative Proteins, Euromonitor 2021; <sup>5</sup>Natural Marketing Institute (NMI) Health & Wellness Study (2017)



<sup>\*\*</sup> Main / active ingredient originating from natural materials. May contain formulation ingredients not matching "natural" definition