

Innovation in Natural Food Colouring and Flavouring

OUR GLOBAL DISTRIBUTION AVAILABLE IN 49 COUNTRIES

Flavours





WHY PLANT-EX?

Established in 2010 and boasting an industry experience of more than 25 years, the team have developed a portfolio of ingredients Plant-Ex which are supplied into the food and feed industries across the globe. Individual development laboratories combined with experience of a multitude of different applications means that the organisation knows how to deliver a product that performs.

Taste, colour and function are critical elements in nutrition for both humans and animals. Our expertise spans the three subjects and our factories and raw material routes are well placed to give customers and their animals the best options that nature can offer.

Taste Pallatability, flavour and

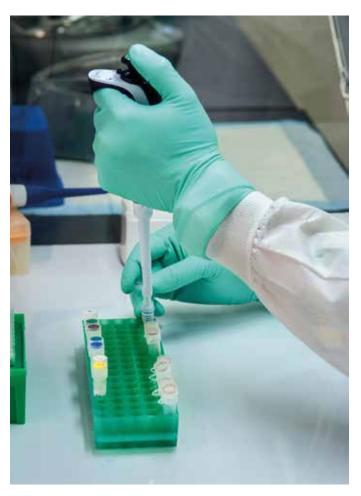
preference

Colour Appearance, differentiation

and brand value

Function Nutrition, shelf life and

health



*Talk to our team about legislatively compliant options with supportive studies assured to assist in the development of great products for our charges in the animal population.



WWW.PLANT-EX.COM
VISIT OUR WEBSITE TO GET MORE INFORMATION

T. +44 (0)117 982 8464 | E. info@plant-ex.com Plant-Ex Ingredients Ltd, Unit 5 The Polygon, Fourth Way, Avonmouth, Bristol BS11 8DP



THE PROCESS IN SHORT

Our Flavourists combine their years of knowledge with the latest technical equipment to develop fresh and innovative new formulations. Plant-Ex has all its production in-house, including spray drying. This means that total control can be maintained both during design and production, from small to large batches.

The process that our Flavourists use when making a new flavour is called compounding. This is done by mixing aroma-chemicals at certain ratios which complement each other, resulting in the









FLAVOUR CHECKLIST

- Format Powder or liquid?
- Solubility Oil soluble or water soluble?
- Application What will the product be used in?
- Target cost is there a price that needs working to?
- Legal Declaration FTNF, Natural or Artificial
- Profile
- Kosher / Halal / Vegan

Looking for a Flavour? Please run through the below questions to help us determine the best option to recommend. The more information about your requirements that our team can receive, the closer to the target profile we are likely to reach.





Available formats

Plant-Ex strength in Flavours lies both within the dynamic team of flavourists and their laboratory, and with our Operations team who have the necessary in-house capabilities to make certain that flavours are produced with optimum consistency. No external contracting is used, everything is made to order and bespoke products are a possibility.

- Liquid Compounds comprising of water soluble or oil soluble liquids.
- Washes are the water soluble part coming from solvent extractions of oily extracts.
- Emulsions comprising fine particle suspensions of oil derived flavours in an aqueous solution.
- Spray dried powders consist of a carrier that encapsulates compounds for stability and shelf life.

Our strength is on our understanding of the creation process, production and use of the products in different applications.



FLAVOUR CLASSIFICATIONS

NATURAL FTNF

From the Named Fruit means that extracts coming from that source have been used at a 95% minimum in the flavour. It can be declared as 'Natural Source Flavouring'.

NATURAL FLAVOUR

Extracts and/or natural occurring chemicals obtained by natural process only can be used. It will be declared as 'Natural Flavouring'.

ARTIFICIAL FLAVOUR

Extracts and/or all food safe chemically defined substance can be used. It is declared as 'Flavouring'.



FLAVOUR DEVELOPMENT LAB

Plant-Ex can match or create a custom flavour for your application. Our flavour laboratory can help to:

- Match an existing flavour or create a custom creative one
- Remove unwanted ingredients, e.g. palm, preservatives.
- Switch from artificial to natural
- Create industry-specific portfolios across a wide range of food industry applications

NPD support includes:

- Flavour matching reports
- New product development
- Formulation and processing advice
- Stability
- Applications testing



FLAVOUR MATCHING

Matching a flavour is often required where a customer needs a lower cost alternative to existing supply, or a second alternative for supply chain security.

The sample is assessed and put through GCMS to analyse it. That gives us an indication of what the flavour consists of. It does give us an idea of the ratios of ingredients, but we still need to make few trials and base the final match on the taste. If the target flavour is old, it is not possible to identify all the components due to reactions between them which happens over time.

Flavour match can take from 1 to 30 trials depending on how complex it is. The flavour team taste each trial together, make comments and then make necessary changes.





CATEGORIES OF FLAVOURS BY APPLICATION



Beverages

For a detailed list of the flavours and their characteristics, please visit the Flavours list Xls file in the shared drive or contact us at sales@plant-ex.com



Dairy



Savoury



Sweet Goods

With more than 5000 formulations in-house, and a team of Flavourists bursting with creativity, the profiles that we can supply are too many to list. Please talk to the team and let them guide you in your choice.





BEVERAGES



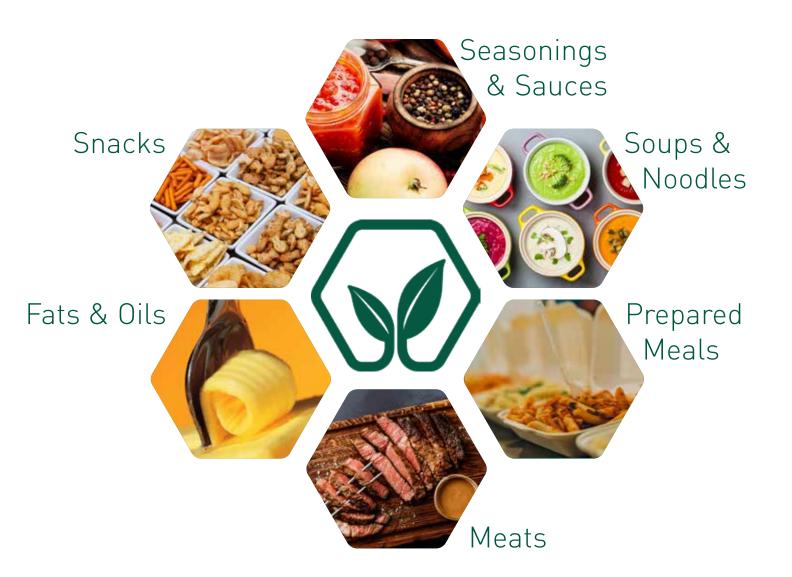


DAIRY





SAVOURY





SWEET GOODS





DIVERSE





Hookah





