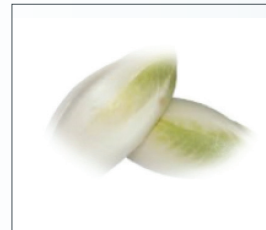
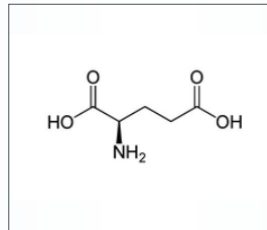


SWEET TASTE IS PART OF THE 5TH PRIMARY TASTE, CONSIDERED AS A VERY APPEALING ONE



SWEET
Carbohydrates
(energy source)
Attractive

SALT
Minerals
Attractive

UMAMI
Proteins,
Amino acid
Attractive

BITTER
Plant toxin
Repellent

SOUR
Spoiled food
(eg. fermentation)
Repellent

Why sugar taste is the most appealing?

- 1 In nature, it is necessary for animals to be able to select from a wide variety of potential foods to satisfy their daily nutrient requirement.
- 2 Sweet taste is linked to glucose, the molecule allowing respiration. **Glucose is the fuel of cells and consequently of all animals.**
- 3 In consequence, this molecule is a question of survival for animals which explain the high attractiveness of sugar and sweet taste.

Sweeteners in the feed industry

In feed industry, different ingredients can be used to improve feed attractivity:

- **Plant-derived:**
Glycerol, Brazzein, Stevia, Thaumatin
- **Artificial:**
Aspartame, Saccharin, NHDC
- **Alcool:**
Sorbitol...



Used alone, a sweetener (e.g. saccharin) can have a **limited effect on the animal feeding behaviour** due to its bad after-taste.

Discover the Optisweet® range

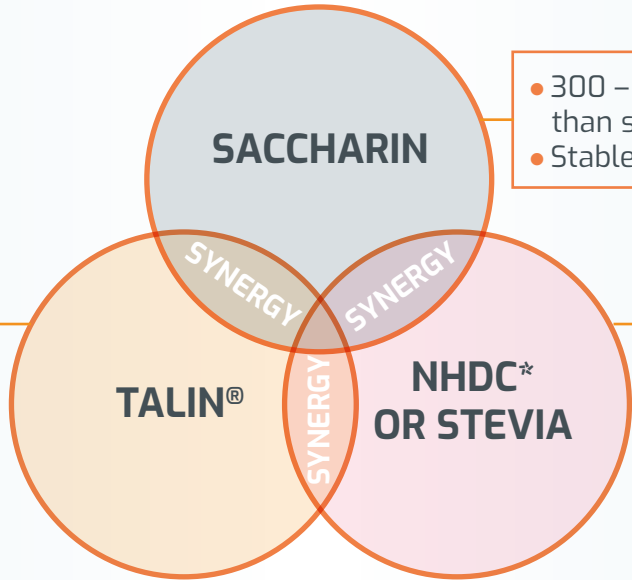
Energy creation through cellular respiration

Glucose + Oxygen = Carbon dioxide + Water + Energy

ADISSEO SWEETENERS COMPLEX

! Cross synergies between all sweetener components result in an extremely powerful sweet taste

💡 Sweet taste can mask bitter taste

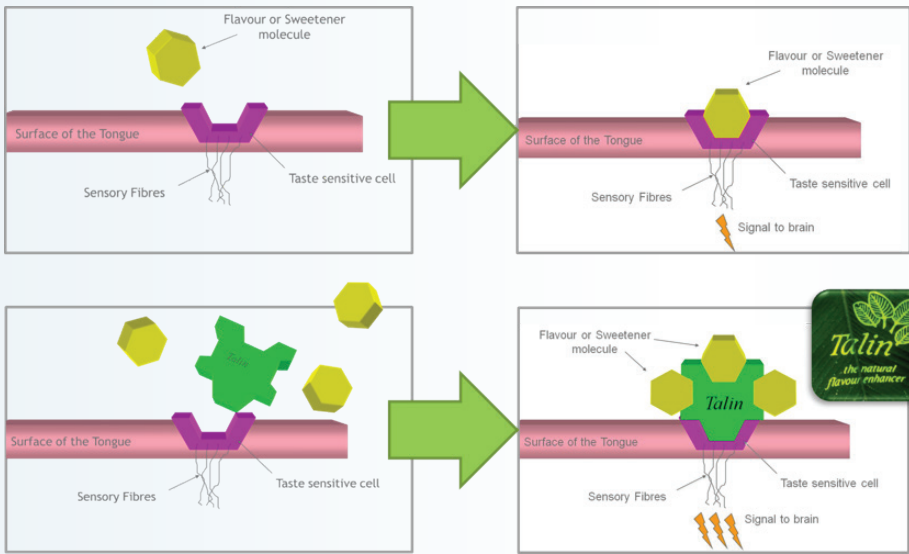


- 300 – 400 times more sweet than saccharose
- Stable at high T°

- Mask metallic aftertaste
 - Enhance sweetener taste
- 

- 1500 – 1800 times more sweet than saccharose
- Long lasting sweet taste
- Stable at high T° and high pH

*authorized only in piglets in EU



TALIN®
Most powerful natural sweet taste in the world!

- Fruit gathered from the forest
- Primary processing in Africa
- Frozen arils shipped to the UK for final manufacture
- Extracted by ultra filtration
- Freeze dried pure Talin®



Take-home message

- Sweet taste is appealing to animal because it means source of glucose and carbohydrate
- Single sweeteners have bad aftertaste
- Sweeteners complex with Talin® are the best option to ensure a powerful synergy