

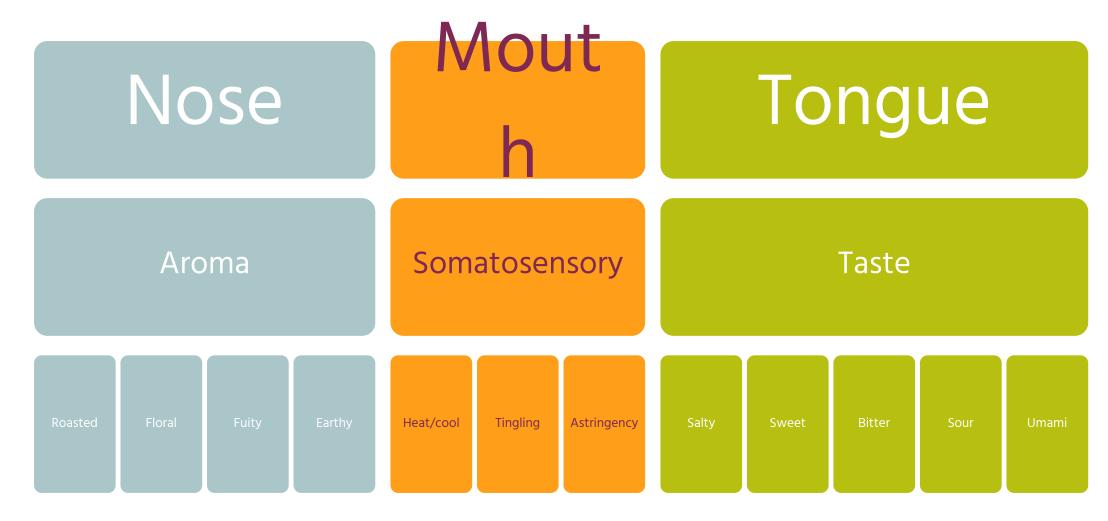


Trueboost Mouthfeel

Clean Label Conference, May 24-25, 2022



What is Flavor?





Somatosensory

Somatosensory; the perception of touch, driven by a set of receptors responsible for sensing pain, temperature and tactile stimulation

Macromolecules

Large molecules such as carbohydrates and fats that cause a physical change of the matrix

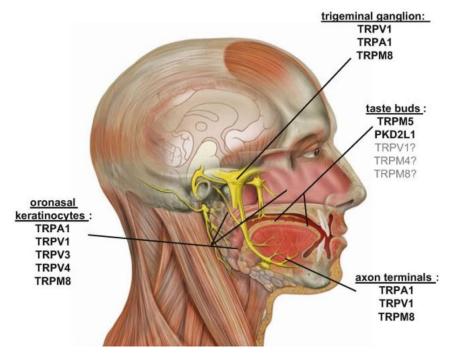
Micromolecules

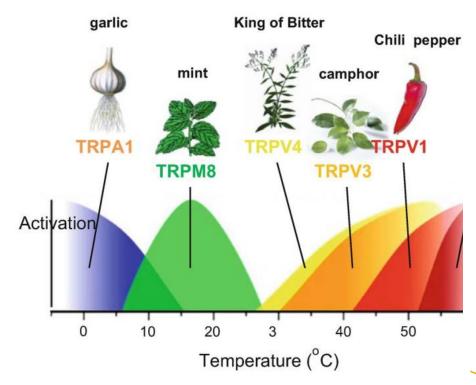
Mediated through TRP channels



Somatosensory

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Roper SD. TRPs in taste and chemesthesis. Handb Exp Pharmacol. 2014;223:827-871.



What is Trueboost Mouthfeel?

TrueBoost Mouthfeel is our label-friendly solution to add a desirable mouthfeel perception to dairy/non-dairy products.

For example:

- Dairy
- Creamy
- Fatty
- Sweet Aromatics





Trueboost Benefits

- Designed to deliver a premium dairy, milky, fatty flavor, and create the mouthfeel sensation of a true dairy profile.
- Made from FEMA GRAS approved natural flavor ingredients and label friendly carriers.
- Non-GMO
- No allergens
- Kosher, Halal, and Vegan suitable
- Easy to use in applications.





Trueboost Mouthfeel Characteristics

TRUEBOOST MOUTHFEEL MILKY

- Oil soluble liquid
- Ingredient statement: High Oleic Sunflower Oil, Sunflower Oil, Natural Flavor
- Typical use rate: 0.05-0.50%

TRUEBOOST MILKY NAT SD

- Water miscible spray dry
- Ingredient statement: Organic Maltodextrin, Vegetable Oil (sunflower oil), Gum Arabic, Natural Flavor
- Typical use rate: 0.05-0.50%

TRUEBOOST MOUTHFEEL FATTY

- Water miscible spray dry
- Ingredient statement: Maltodextrin, Gum Acacia, Triacetin, Natural Flavor, Silicon Dioxide
- Typical use rate: 0.05-0.50%



Applications



Ice Cream



Yogurt





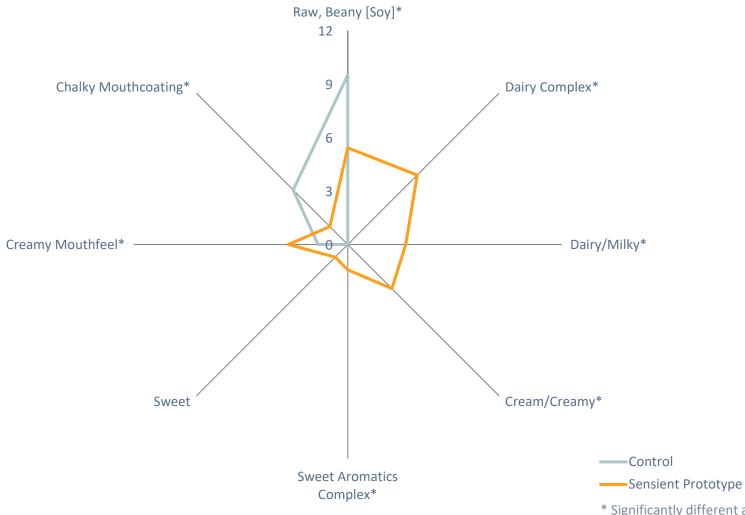
Protein Milk Beverage







TrueBoost Mouthfeel in Soy Based Milk



Sensient Prototype exhibits:

- ✓ Significant reduction in Beany off notes and Chalky Mouthcoating
- Significant enhancement in Dairy Complex, Dairy/Milky, Cream/Creamy, and Sweet Aromatics as well as Creamy Mouthfeel



^{*} Significantly different at 95% CL

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Questions?



Somatosensory

Somatosensory; the perception of touch, driven by a set of receptors responsible for sensing pain, temperature and tactile stimulation



Astrigency of whiskey attributed to Vescalagin, castalagin, grandinin, roburun



Fatty texture and mouthcoating attributed to orotic acid, pantothenic acid, hippuric acid

Glabasnia, A., Hofmann, T. Sensory-Directed Identification of Taste-Active Ellagitannins in American (Quercus alba L.) and European Oak Wood (Quercus robur L.) and Quantitative Analysis in Bourbon Whiskey and Oak-Matured Red Wines. J Agric Food Chem. 2006, 54, 3380-3390.

Potts, P., Peterson, D. Identification of small molecule flavor compounds that contribute to the somatosensory attributes of bovine milk products. Food Chemistry. 2019, 294, 27-34.

