

From'Innov: a new technology to obtain aroma in solubilized soft-cheese

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Context

Objective

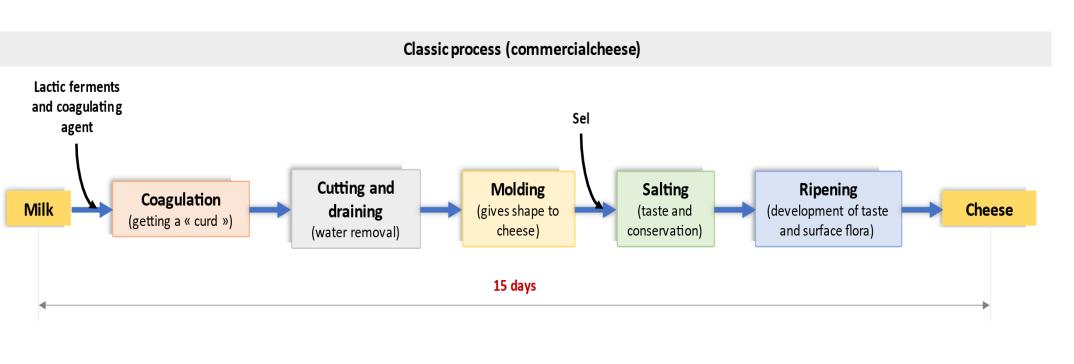
thickened milk)

(development of taste)

From'Innov: an innovative cheese technology to obtain aroma in solubilized soft cheese

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- Cheese-making technology has been around for a very long time.
- The evolutionary modernization of its processes has led to longer shelf-life. However, improvements are still possible at the aromatic level, especially for solubilized soft cheeses. These improvements could help adapt to changing consumer preferences.
- According to "L'économie laitière en chiffres Editions 2022 CNIEL p.111, the French soft-cheese consumption, in volume, decreased slightly by -1,5% from 2017 to 2021.
- **From'Innov** is an innovative process, breaking with traditional processes. Thanks to its flexibility, this new process is particularly well suited to meet the challenges associated with the development of cheeses whose
- Determine anthripe softwhite softwhi accepted by consumers.
- Materials & methods
 - Products: 3 solubilized soft cheeses: a commercial cheese (CC) obtained by a classic process and two experimental produced by From'Innov i.e. a new cheese with a typical flavor (NCTF) and a



New process (Newcheeses typical flavor and mild flavor)

Salting

7 days

Molding and

(gives shape to cheese)

Ripening

of surface flora)

(developement



NCTF

90.5

4.0

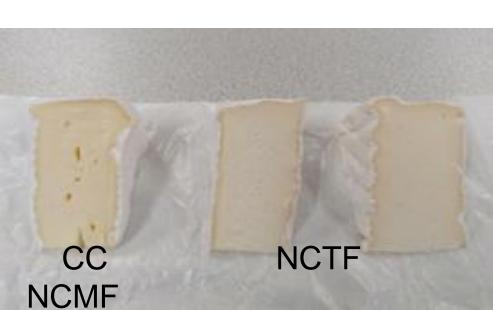
NCMF

95.2

ngredients (%, w/w)

Filtration retentat

Hafnia alvei



- Consummer test: 142 consumers, 3 cheeses above
 - Hedonic appreciation I do not like I like it very much
 - Penalty analysis: level of satisfaction with the intensity of nine sensory properties (Just About Right scale)

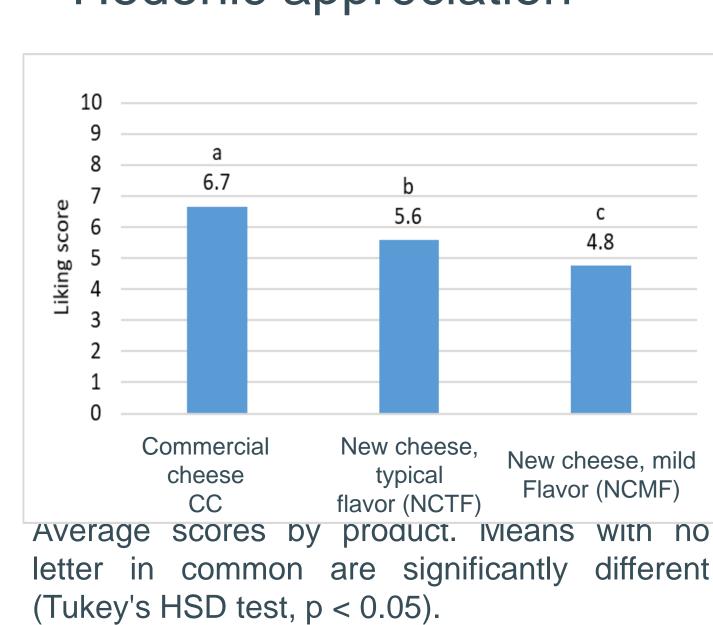


Just about right (JAR) scale

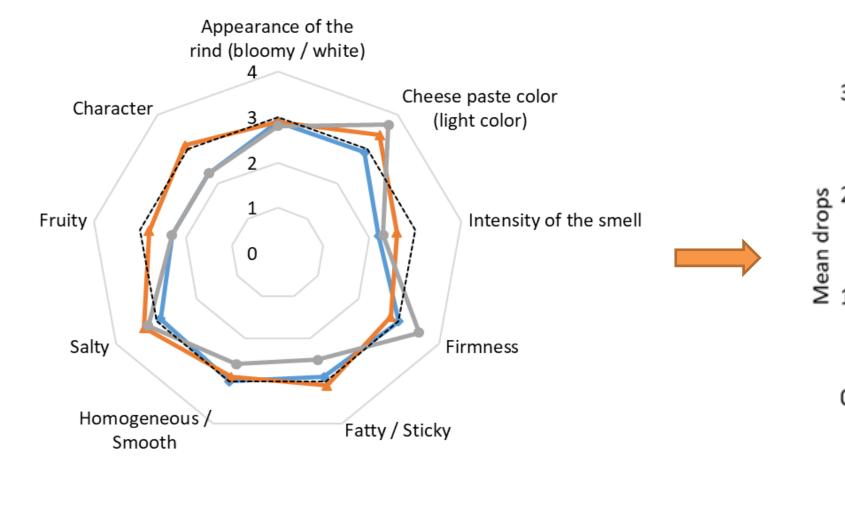
- Not enough at all
- Not enough
- Just about right
- Too much
- Far too much
- Results: The consumer test revealed an encouraging level of acceptability for From'Innov 419 cheese (typical flavor). The analysis of the penalties specifies the sensory characteristics to be adjusted in order to further improve the acceptability of this cheese. The flexibility of the From'Innov process makes it easy to modify these characteristics.
 - Hedonic appréciation

thickened milk +

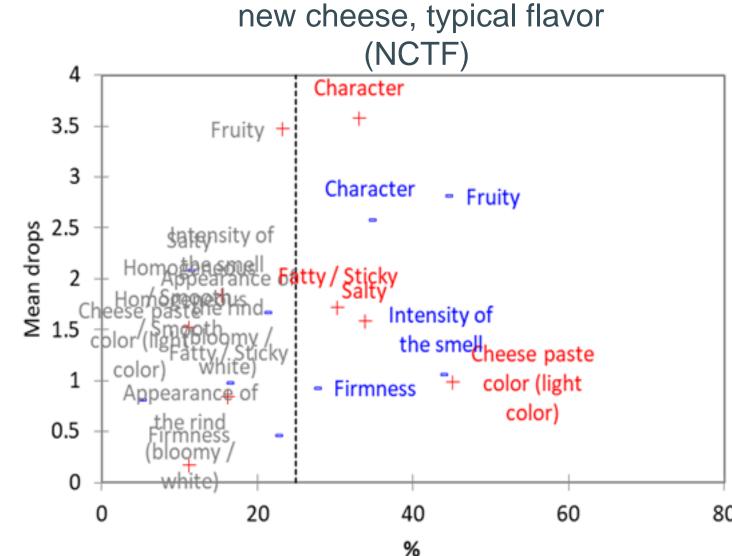
aromatic milk)



Penalty analysis



► NCTF ► NCM ----- Just about right



Characteristics adjusted in order to further improve the acceptability: In red, the properties perceived as too intense / present. properties perceived as present enough. properties sensory which response percentage is too low to conclude (< 25% of the panel).

- Perspectives
- Understand if the market is ready to adopt such a technology: who could appropriate it and when? Major industries, SMI, farmers...
- Try to adapt this technology to farmers' group or artisans in order to preserve the profit margin for them.





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