Detection of fraud on food product origin

NAQS is a Korean state organization supervised by the Ministry of Agriculture, Food and Rural Affairs. Its mission is to manage agri-food quality to provide consumers with safe and good agri-food products. The responsibilities of NAQS include agri-food safety investigation, eco-friendly products and Good Agricultural Practices (GAP) certification system, management of origin and GMO labeling, inspection of agricultural commodities and registration of agro-businesses.

"The Electronic Nose is a fast and reliable tool for detecting fraud on food products origin"

Kimchi is a traditional fermented Korean side dish made of fermented Chinese cabbage with a variety of seasonings. It is a very popular food product in Korea.

Due to its rather expensive price, frauds on the product origin are frequent. Suppliers do not hesitate to label "Made in Korea" products they sourced from other countries such as China for example.

Conventional methods for product authentication are time-consuming, that's why NAQS has implemented a testing method based on HERACLES Electronic Nose, which allows a fast and accurate identification of Kimchi origin. The recognition model set up with this instrument can successfully predict the origin of the tested samples with 99% accuracy and thus reliably recognise counterfeited products.

See the video on KBS website >>

NAQS

National Agricultural Products Quality Management Service

Activity
Control of the safety and quality of agri-food products

Context
Need a fast analytical technique for checking the origin of Kimchi (fermented Chinese cabbage) and detect potential fraud on product origin

Equipment
HERACLES Electronic Nose

User contact
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Website
http://www.naqs.go.kr/english/index.jsp

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