

## Portable sampling lance

### Description

The present invention aims to facilitate the sampling process of large and unpacked food shipments by providing an easy-to-use and transportable sampling lance for rapid and non-destructive sampling of unpacked bulk food.

The portable lance is designed in order to collect dust and rub off materials only, ensuring the integrity of the tested product. Vibrating means are added to the head of the device to enhance both the penetration of the lance into the bulk food and the quantity of rub-off material collected during sampling. Another important feature is the possibility to charge electrically the grid element of the head. This will further enhance the uptake of dust and rub-off material. Contaminants (e.g. mycotoxins or pesticides) are then sucked into a vacuum system and collected on a filter.

Conventional methods for sampling bulk food loads are both time and labour intensive or require the use of an airtight chamber of the size of the sample, which can not be transported easily to perform rapid and random testing. The present invention remedies the above mentioned drawbacks and allows fast, random, and non-destructive.



### Innovative aspects and main advantages

- Fast and non-destructive sampling of unpacked bulk food.
- Less labour-intensive than other techniques
- Easy to manipulate and transportable

### Areas of application

- Food sampling



### Stages of development

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Prototype  
Pilot tests conclusive

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