

## How to test Orally Disintegrating Tablets (ODTs) Taste?

“The Electronic Tongue reproducibility and ease of use are suitable for any stage of ODT product development”

Cardinal Health, Inc. is a leading provider of products and services supporting the health-care industry. Cardinal Health companies develop, manufacture, package and market products for patient care; develop drug-

delivery technologies; distribute pharmaceuticals.



"ODTs, which offer a very convenient dosage form, often require a bitter active to be masked or coated to ensure patient compliance. Typically, traditional taste evaluation methods using trained tasting panellists cannot be practically applied to the early phases of product development due to cost or to certain drugs which have adverse effects on the panellists.

### Electronic Tongue, a taste evaluation tool for bitterness & new formulation

The Electronic Tongue reproducibility and ease of use are suitable for any stage of ODT product development. The ASTREE Electronic Tongue has been successfully used to:

- ▶ Quantify bitterness of ODT,
- ▶ Develop an optimal matching bitter placebo, suitable for use in blinded clinical testing or as a proxy compound for evaluating various drug formulation approaches,
- ▶ Develop an optimized taste masked ODT formulation.

The Electronic Tongue is used to quantify taste profiles of active pharmaceutical ingredients (API) and to develop matching placebos."

## Cardinal Health



### Activity

Pharmaceutical laboratory

### Context

Need for an equipment for taste evaluation during the early phases of product development since sensory panel cannot be applied for costs reasons or health issues

### Equipment

ASTREE Electronic Tongue

### Website

<http://www.cardinal.com>