

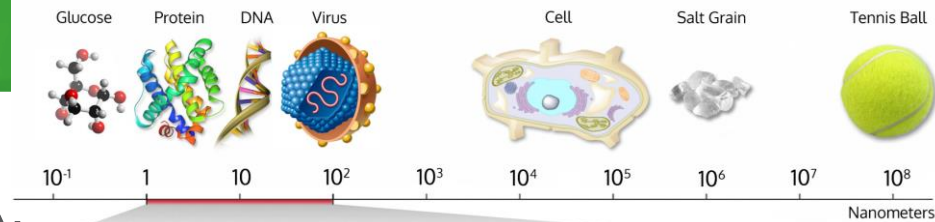
SCREENING FOR NANOPARTICLES IN COMPLEX MATRICES WITHIN A REGULATORY FRAMEWORK:

Are we there yet?

Nadia Waegeneers

Lotte Delfosse, Sandra De Vos, Jan Mast

The regulatory framework in the area of nanomaterials & food



Novel Food Regulation (2015/2283):

- Legally binding definition of “engineered nanomaterial (ENM)”
- Food consisting of ENM = novel food
- Authorisation needed
- Safety risk assessment by EFSA

Provision of Food Information to Consumers (FIC; 1169/2011):

- Ingredients present as ENM -> (nano) in ingredientslist

Food additives (1333/2008): re-evaluation of safety by EFSA
& follow-up

Implementation of regulations needs high quality data

Safety evaluations and FIC implementation

- Need for occurrence/exposure data of ENM in food
- Need for detection and characterisation of ENM in food
- Need for validated methods to detect and characterize ENM in food
- Food = complex matrices: need for sample preparation methods



OBJECTIVES & METHODOLOGY

The NanoAg@ project: objectives

To provide high quality science-based data on silver (nano)particles in

- Pristine E174 food additives available on the market
- Food products containing the food additive E174

Approach:

- Characterization of (nano)particles
- Number-based size distributions
- Particle concentrations



To support the control (regulators), application (consumers) and implementation (producers) of regulation 1169/2011 for E174

**FURTHER CONTENT
REMOVED**

Acknowledgements

Service Trace Elements and Nanomaterials

Lotte Delfosse

Ronny Machiels

Frédéric Van Steen

Krissy Bouwers

Sandra De Vos

Eveline Verleysen

Jan Mast



federal public service

HEALTH, FOOD CHAIN SAFETY AND ENVIRONMENT