



Center for Technology Transfer and Marketing

CTTM

## DETECTION OF IRRADIATED FOODSTUFFS

### DESCRIPTION

The **IRASM Department** of NIPNE has the expertise and the potential to offer services on detection of irradiated foodstuffs using 9 European standardized detection methods: 4 physical, 2 chemical and 3 biological.

For the application of a 10<sup>th</sup> detection method (EN 13751) we have access to a laboratory with the proper analysis equipment.

All 10 methods are qualitative and not quantitative detection methods.

### APPLICATION DOMAINS

Detection of irradiated foodstuffs:

#### 1. Physical methods for food:

- containing bone (EN 1786)
- containing crystalline sugar (EN 1787)
- containing sillicate minerals (EN 1788)
- containing cellulose (EN 13708)

#### 2. Chemical methods for food:

- containing fat (EN 1784)
- containing fat (EN 1785)

#### 3. Biological methods for food:

- containing microorganisms (EN 13783)
- containing cells (EN 13784)
- containing microorganisms (EN 14569)

### MAIN ADVANTAGES

Very good expertise on food irradiation and detection of irradiated foodstuffs field.

Very good laboratory setups for the application of all 9 detection methods and acces to a proper laboratory for the 10<sup>th</sup> one.

Possibility to apply more detection methods on same food sample with result on a better detection of irradiation treatment.



### CONTACT

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### POTENTIAL CUSTOMERS OR COMMERCIAL APPLICATIONS

- Institute of Hygiene and Veterinary Public Health Bucharest
- Sanitary Veterinary and Food Safety National Authority /Regional Sanitary Veterinary and Food Safety Directions
- Institute of Public Health / Regional Public Health Directions
- National Authority for Consumer Protection
- Food and dietary supplements import companies

### KEYWORDS

**IRASM, ionizing radiation, food irradiation, detection of irradiated foodstuffs, ESR, TL, PSL, GC/MS, DEFT/APC, DNA comet assay, LAL/GNB**