



Services

1. Residues and Contaminants

- » Pesticides
- » Hormones and other anabolic substances
- » Anti-infectious and anti-parasitic agents (antibiotics, pyrethroids, coccidiostatics, etc.)
- » Tranquilizers and anti-inflammatory agents
- » Heavy metals
- » Mineral oil hydrocarbons (MOH), PAHs
- » Additives (colourants, preservatives, ...)
- » PCBs...

2. Oxidation Products

- » Cholesterol oxides
- » Oxidized triglycerides
- » TBARs, IP, ...
- » Hexanal, Nonanal and profile of volatiles related to oxidation
- » Lipid and protein oxidation
- » Transition metals
- » 4-hydroxy-trans-2-nonenal

3. Antioxidant molecules

- » Inorganic and synthetic antioxidants; Nitrite, Carbon monoxide, BHA, BHT, TBHQ.
- » Polyphenols, flavonoids, procyanidins and phenolic acids.
- » Hydrosoluble antioxidants: glutathione, ascorbic acid, bilirubin, uric acid and carnosine.
- » Antioxidant enzymes: superoxide dismutase, catalase, glutathione peroxidase, etc.
- » Lipid soluble antioxidants: α -tocopherol, tocotrienols, lycopene, carotenoids, ubiquinone and lipoic acid.
- » Natural extracts: thymol, carvacrol, carnosol, rosmanol, rosmarinic acid, rosmaridiphenol, etc.
- » Polyamines: putrescine, spermidine, spermine, etc.
- » Chelators: polyphosphates, etc.

4. Nitrosamines

Applications

- » Determination of abiotic shelf life (oxidative stability) in oils and fats, meat and meat products, fish and fish products, ready to eat and ready to cook meals, etc.
- » Development and application of validated procedures of biosensor analysis.
- » Determination of the effect of new technologies on oxidative susceptibility.
- » Contaminants in tissues and foods of animal and vegetal origin.
- » Assessment of veterinary drug residues (including *in vivo* obtained matrices as animal hair, urine, etc.)