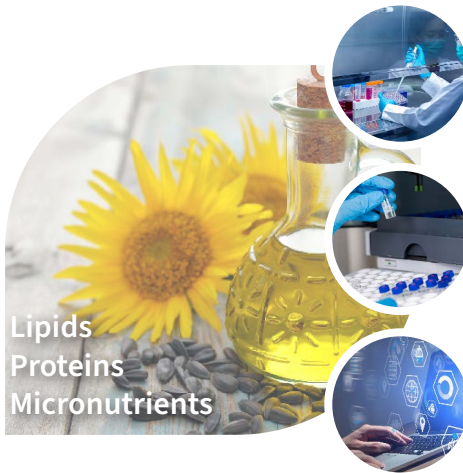


LIFE SCIENCES

ITERG

**YOUR EXPERTS IN NUTRITION,
BIOCHEMISTRY & BIOANALYSIS**



Lipids
Proteins
Micronutrients

Bioassays

Bioanalysis

Scientific support

Bioassays, Bioanalysis, Scientific support, all in one place



Food & Nutrition



Pharmaceuticals



Biotechnology



Feed

Three service platforms to promote the nutritional and/or health benefits of dietary ingredients or formulas

Bioassays

Nutritional studies (in vitro, in vivo) & Evaluation of bioavailability / bioactivity

- Digestion/Absorption (pharmaco-kinetic studies)
- Metabolism
- Bioactivities (oxidative stress and inflammation)



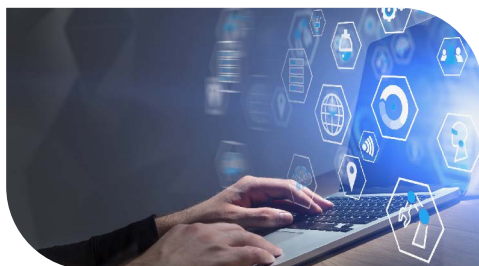
..... Bioanalysis



- Bioactive compounds in biological samples (plasma, red blood cell, breast milk, tissue biopsies, DBS)
- Method development & validation on biological matrix

Scientific support

- Literature review
- Scientific communication
- Scientific and regulatory survey
- Novel food application form
- Nutritional audit



Main bioanalysis on biological matrices*

			Plasma/ serum	Red blood cell	Tissue Biopsies	Breast milk	Bacteria Virus
Characterization of lipids and fat-soluble nutrients in biological samples	Lipids	Lipid composition (TAG, FFA, MAG), DAG, total PL	✓	✓	✓	✓	✓
	Fatty acids	Fatty acid composition of total lipids (Omega-3 & Omega-6 fatty acids, trans fatty acids, conjugated linoleic acid isomers, medium chain fatty acids, branched fatty acids)	(+BBS) ✓	✓	✓	✓	✓
		Fatty acid composition of individual lipids (TAG, FFA, MAG, DAG, total PL, individual PL)	✓	✓	✓	✓	✓
		Short chain fatty acids (SCFA)	(+Faeces) ✓				
		Fatty acids distribution (sn-2 position) into TAG or PL	✓	✓	✓	✓	
	Sterols	Cholesterol, cholesteryl esters	✓	✓	✓	✓	✓
		Phytosterols	✓				
	Polar lipids	Individual phospholipids (SM, PC, PE, PI, PS, LPC, LPE, LPS...)	✓	✓	✓	✓	✓
		Gangliosides				(+Infant formula) ✓	
		Alkylglycerols and plasmalogens	✓			✓	
	Micronutrients	Fat soluble vitamins (A, E, D2, D3)	✓			✓	
		Vitamin D metabolites 25(OH)D; 1,25(OH)2D	✓				
		Carotenoids	✓				
		Saffron carotenoids (crocetinins)	(+Urine) ✓				

*More matrices and analytical developments available to comply your needs



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