SAMPLE PREPARATION

APPLICATIONS & PRODUCTS GUIDE

IN FOOD QUALITY & SAFETY

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Guide > Match your needs with the right product

	Targeted molecules	Products	Food matrices: Drinking water	Cereals	Milk & Dairy products	Oil & Fatty food	Honey	Fruits & Puree	Fruit juices	Alcohol	Soft drinks	Spices	Tea, Coffee & Cocoa	Tissues, Meat & Fish	Biofluids
PAHs, PFAS and persistent pollutants (POP)	Perfluorinated compounds	AttractSPE® PFAS	X											X	
	Polycyclic Aromatic Hydrocarbons (PAH)	AFFINIMIP® SPE PAHs				X									
		AttractSPE® HLB *disk / cartridge*	X												
	Dioxins and hydroxylated dioxins[1]	AFFINIMIP® SPE Phenolics	X											X	
Antibiotics, drugs residues & other contaminants	Bisphenols (*e.g.* Bisphenol A)	AFFINIMIP® SPE Bisphenols	X	X	X		X	X	X	X	X			X	X
	Parabens	AFFINIMIP® SPE Phenolics	X	X											
	Natural and synthetic oestrogens[2]	AFFINIMIP® SPE Estrogens	X	X	X		X	X	X	X	X			X	X
	Aminoglycosides[3] AOAC Official Method 2020.04	AFFINIMIP®SPE Aminoglycosides			X	X	X							X	
	Amphetamines[4]	AFFINIMIP® SPE Amphetamines												X	X
	Beta agonists[5]	AFFINIMIP®SPE Beta agonists			X									X	X
	Chloramphenicol	AFFINIMIP® SPE Chloramphenicol					X							X	X
	Drug Multiresidues analysis	**AttractSPE® HLB**	X												
	Tetracyclines[6]	AFFINIMIP® SPE Tetracyclines			X									X	
	Nitroimidazoles	AFFINIMIP® SPE Nitroimidazoles	X		X									X	X
	Zeranol residues[7]	AFFINIMIP® SPE Zeranol Residues												X	
	Cannabis (THC/CBD, cannabinoids)	AFFINIMIP® SPE Cannabis				X									X
Mycotoxins	Aflatoxins B1/B2/G1/G2	AFFINIMIP® SPE Aflatoxins	X	X											
	Deoxynivalenol (DON)	AFFINIMIP® SPE Deoxynivalenol	X	X										X	
	Ochratoxin A	AFFINIMIP® SPE Ochratoxin A	X	X					X	X					
	Patulin	AFFINIMIP® SPE Patulin	X					X	X	X					
	Zearalenone	AFFINIMIP® SPE Zearalenone	X	X										X	
	Fumonisins & Zearalenone	**AFFINIMIP® SPE FumoZON**	X	X											
	Aflatoxins/Fumonisins/Deoxynivalenol/ Ochratoxin A/Zearalenone/HT2 & T2	**AFFINIMIP® SPE Multimyco LCMSMS**	X	X											
Pesticides - Herbicides	Aminopyralid, Clopyralid, Picloram	AFFINIMIP® SPE Picolinic Herbicides	X												
	Glyphosate, AMPA	AFFINIMIP® SPE Glyphosate – AMPA	X	X	X		X	X		X	X	X	X	X	
	Multiresidues analysis	**Qcleanup® - QuEChERS**		X	X		X	X	X			X	X		
Food proteomics	Allergenic proteins desalting	BioSPE®PureProt (top down proteomics)		X	X					X				X	
		BioSPE®PurePep (bottom up proteomics)		X	X					X				X	

Good to know > Food proteomics

Proteomics is very useful to study **food allergens**, by identifying, detecting and quantifying allergenic proteins such as glycinin in soy, gliadins in wheat or caseins in milk. The **BioSPE® PurePep** and **BioSPE® PepFrac** kits are respectively used for efficient **desalting and fractionation of peptides** resulting from the enzymatic digestion of proteins, to ensure optimal and reliable LC-MS analysis, with high number of proteins identified!

The **BioSPE® PureProt** kit can also be used to **purify intact proteins**, for top-down analysis and quantification of total proteins in milk samples for instance!

Table legends > Molecules references

1: PCDD/Fs, PCBs, PBDEs, PBDD/Fs, OH-BDEs, OH-CB/BDE
2: Estrone, 17α-Estradiol, 17β-Estradiol, Estriol, 17α-Ethynilestradiol
3: Amikacin, Apramycin, Dihydrostreptomycin, Gentamicins, Hygromycin B, Kanamycin A, Paromomycin, Sisomicin, Spectinomycin, Streptomycin, Tobramycin
4: Amphetamine, Methamphetamine, MDA, MDMA, MDEA
5: Salbutamol, Zilpaterol, Ractopamine, Clenbuterol
6: Tetracycline, Oxytetracycline, Chlortetracycline, Doxycycline
7: Zearalanone, α and β Zearalanol, α and β Zearalenol, Resorcylic acid lactones

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The art of making sample preparation easier