



# SAMPLE PREPARATION

## APPLICATIONS & PRODUCTS GUIDE

# IN FOOD QUALITY & SAFETY

# 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	
PAHs, PFAS and persistent pollutants (POP)	Perfluorinated compounds	AttractSPE® PFAS	X												
	Polycyclic Aromatic Hydrocarbons (PAH)	AFFINIMIP® SPE PAHs				X									
		AttractSPE® HLB	X												
	Dioxins and hydroxylated dioxins <sup>1</sup>	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	
	Parabens	AFFINIMIP® SPE Phenolics	X	X											
	Estrone, 17α-Estradiol, 17β-Estradiol, Estriol, 17α- Ethynilestradiol	AFFINIMIP® SPE Estrogens	X	X	X		X	X	X	X	X			X	
	Aminoglycosides <sup>2</sup>	AFFINIMIP®SPE Aminoglycosides			X		X							X	
	Amphetamines <sup>3</sup>	AFFINIMIP® SPE Amphetamines												X	
	Beta agonists <sup>4</sup>	AFFINIMIP®SPE Beta agonists			X									X	
	Chloramphenicol	AFFINIMIP® SPE Chloramphenicol					X							X	
	<b>Drug Multiresidues analysis</b>	<b>AttractSPE® HLB</b>	X												
	Tetracyclines <sup>5</sup>	AFFINIMIP® SPE Tetracyclines			X										X
Zeranol residues <sup>6</sup>	AFFINIMIP® SPE Zeranol Residues													X	
Mycotoxins	Aflatoxins B1/B2/G1/G2	AFFINIMIP® SPE Aflatoxins		X											
	Deoxynivalenol (DON)	AFFINIMIP® SPE Deoxynivalenol		X										X	
	Ochratoxin A	AFFINIMIP® SPE Ochratoxin A		X					X	X					
	Patulin	AFFINIMIP® SPE Patulin						X	X	X					
	Zearalenone	AFFINIMIP® SPE Zearalenone		X										X	
	<b>Fumonisin &amp; Zearalenone</b>	<b>AFFINIMIP® SPE FumoZON</b>		X											
	<b>Aflatoxins/Fumonisin/Deoxynivalenol / Ochratoxin A/Zearalenone/HT2 &amp; T2</b>	<b>AFFINIMIP® SPE Multimyc LCMSMS</b>		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	
	<b>Multiresidues analysis</b>	<b>Qcleanup® - QuEChERS</b>		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: Amikacin, Apramycin, Dihydrostreptomycin, Gentamicins, Hygromycin B, Kanamycin A, Paromomycin, Sisomicin, Spectinomycin, Streptomycin, Tobramycin
- 3: Amphetamine, Methamphetamine, MDA, MDMA, MDEA
- 4: Salbutamol, zilpaterol, ractopamine, clenbuterol
- 5: Tetracycline, Oxytetracycline, Chlortetracycline, Doxycycline
- 6: Zearalanone,  $\alpha$  and  $\beta$  Zearalanol,  $\alpha$  and  $\beta$  Zearalenol, Resorcylic acid lactones



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