AFFINIMIP® POCIS

AFFINIMIP® SPATT

PASSIVE SAMPLING SOLUTIONS

Be selective

Food / Feed Safety

Environment

Cosmetics

Pharmaceutical R&D

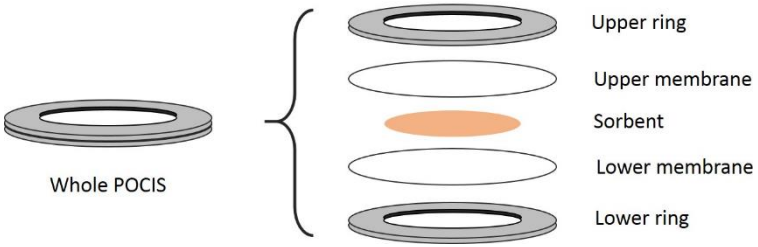
Passive sampling enables the monitoring of contaminants in water (surface water, groundwater, coastal water...) for a short (at least 7 days) to long period (with an average field deployment of one month) for which no power, maintenance and supervision is required. An average of the concentration of collected contaminants is measured in the laboratory.

Description of AFFINIMIP® POCIS & AFFINIMIP® SPATT

The **Polar Organic Chemical Integrative Sampler (POCIS)** is designed to provide the time weighted average (TWA) concentration of chemical contaminants during the sampling period.

Solid phase adsorption toxin tracking (SPATT) is a new monitoring tool that simulates the biotoxin contamination of filter feeding bivalves.

The POCIS and SPATT consist of a solid sorbent contained between two microporous membranes.



Advantages of AFFINIMIP® POCIS & AFFINIMIP® SPATT

- Can generate a time-weighted average (TWA) concentration of the contaminants in water
- Deployable in harsh conditions
- No a priori preparation or supervision - Very simple use

Steps from water to analysis

The sorbent collects the contaminant(s) in water. The organic compounds are then extracted from the sorbent in the POCIS, following a SPE procedure and analyzed using classical analytical methods by HPLC, and LC-MS, ...

AFFINIMIP® POCIS & AFFINIMIP® SPATT
Collect of analytes by the POCIS on the field

AFFINIMIP® SPE
Analytes extraction by SPE

QUANTIFICATION
by HPLC, LCMS or any other analytical method

Broad range of applications for your sample preparation

Hormons and EDCs
- Natural & synthetic Estrogens
- Bisphenols & analogs
- Phenolics
- ...

Pesticides
- Glyphosate & AMPA
- Aminopyralid, Clopyralid, Picloram
- Atrazine & derivatives
- Diuron
- ...

Drug residues
- Carbamazepine
- Sulfamethoxazole
- Diclofenac
- Propranolol
- Erythromycin
- Tetracycline
- ...

Other contaminants
- Caffeine
- PFOS, PFOA
- Biocides
- PAHs
- Biotoxins

AFFINIMIP® POCIS collect families of chemical contaminants. Several kits are available with or without a performance reference compounds (PRC) to correct for in situ exposure known to affect uptake rates. These kits also include empty fritted cartridges to make easiest the extraction step of the contaminants.

AFFINIMIP® POCIS			
Designation	**Definition**	**Composition**	**Reference**
AFFINIMIP® POCIS GLYPHOSATE	POCIS containing AFFINIMIP® GLYPHOSATE - AMPA for the retention of glyphosate and AMPA	1 POCIS	POCIS.GLY.90.55.A.1
		Kit of 10 POCIS + empty fritted cartridges	POCIS.GLY.90.55.kit.10
AFFINIMIP® POCIS EDC	POCIS containing AFFINIMIP® Estrogens and AFFINIMIP® Bisphenols for the retention of endocrine disrupters such as natural/synthetic estrogens, Bisphenols...	1 POCIS	POCIS.EDC.90.55.A.1
		Kit of 10 POCIS + empty fritted cartridges	POCIS.EDC.90.55.kit.10
AFFINIMIP® POCIS Pesticides	POCIS containing mixture of sorbent for the retention of several pesticides	1 POCIS	POCIS.PEST.90.55.A.1
		Kit of 10 POCIS + empty fritted cartridges	POCIS.PEST.90.55.kit.10
		Kit of 1 POCIS with a sorbent containing DIA as PRC - 3 cartridges containing the sorbents with Désisopropylatrazine (DIA) d5 - empty fritted cartridges	POCIS.PEST.90.55.kit.1.DIA
AFFINIMIP® POCIS Pharma	POCIS containing Attract HLB for the retention of pharmaceutical drug residues	1 POCIS	POCIS.HLB.90.55.A.1
		Kit of 10 POCIS + empty fritted cartridges	POCIS.HLB.90.55.kit.10
		Kit of 1 POCIS with a sorbent containing DIA as PRC - 3 cartridges containing the sorbents with Désisopropylatrazine (DIA) d5 - empty fritted cartridges	POCIS.HLB.90.55.kit.1.DIA
AFFINIMIP® POCIS PAHs	POCIS for the retention of PAHs	1 POCIS	POCIS.PAHs.90.55.A.1
		Kit of 10 POCIS + empty fritted cartridges	POCIS.PAHS.90.55.kit.10

AFFINISEP provides **AFFINIMIP® SPATT** for biotoxins uptake.

AFFINIMIP® SPATT			
Designation	**Definition**	**Composition**	**Reference**
AFFINIMIP® SPATT BIOTOXINS	SPATT containing HP-20 sorbent for the retention of biotoxins. Nylon mesh membrane	1 SPATT Biotoxins	SPATT.BIOTOX.1

AFFINISEP provides a complete set of accessories for the use of **AFFINIMIP®** tools.

Designation	Definition	Composition	Reference
CANISTER – 3 POCIS	Canister for 3 POCIS . Requires a holder	1 canister	CAN-3P.A.1
HOLDER – 3 POCIS	Holder for 3 POCIS	1 holder	HOLD-3P.A.1
CANISTER AND HOLDER FOR 3 POCIS	1 Canister and 1 holder for 3 POCIS	1 canister and 1 holder	CH-3P.A.1

POCIS

HOLDER – 3 POCIS

CANISTER – 3 POCIS