



# MSPE

Unique  
technology

SPE  
EXTRA



Speed up  
your sample preparation

- Simple and fast sample preparation
- 2 in 1 – micro-solid phase extraction and filtration in one step
- SPE manifold replaced by use of centrifugal filters

Simple  
technique

Shorter sample  
preparation time



**FAST**



**EASY**



**CLEAN**

Lower solvent  
consumption

SPE and filtration  
at once using 0.22 µm  
membrane



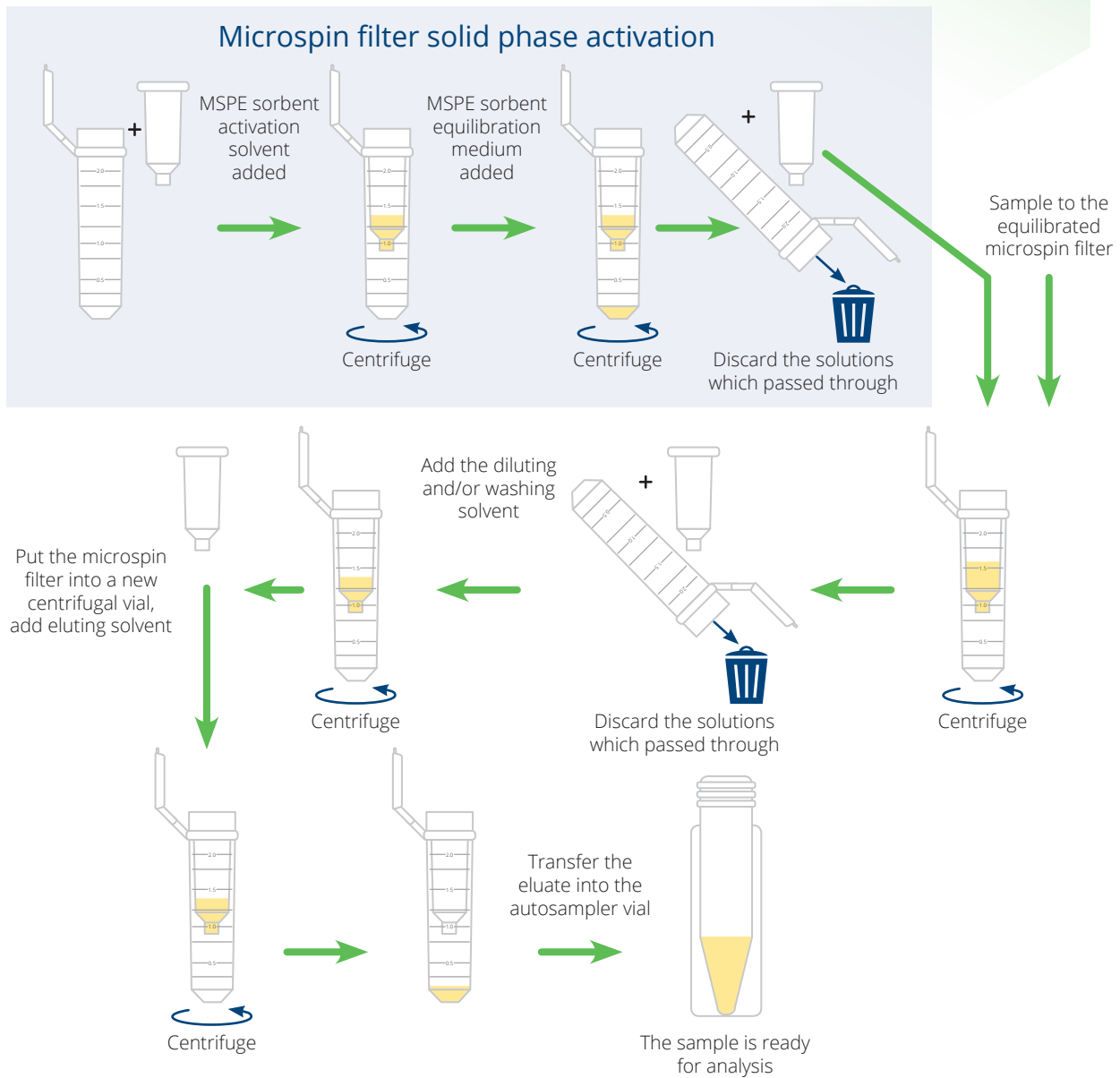
**COMPACT**



**CLEAR**

Centrifuging  
multiple samples at once

## General sample preparation workflow

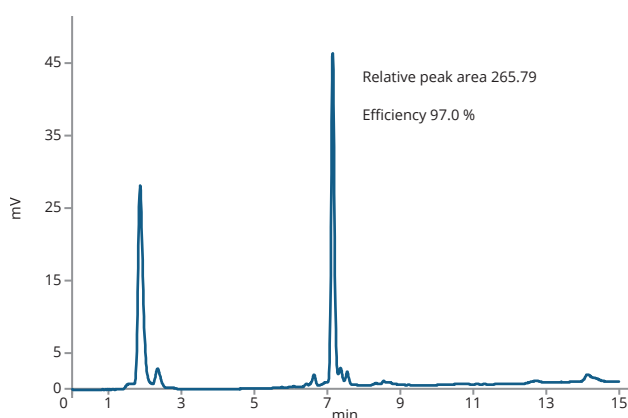


More information about MSPE sorbents can be found:

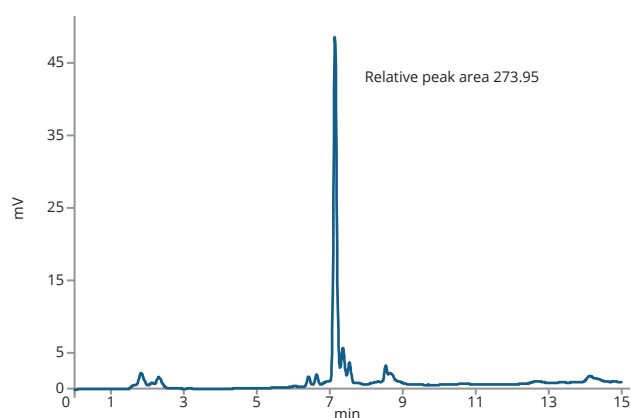


## Prepurification of adipokinetic hormones

Adipokinetic hormones (AKHs) are insect anti-stress hormones that maintain the biochemical and physiological homeostasis of the insect body (Kodrík, 2008). AKHs are octa, nona- or decapeptides with both termini blocked: the N-terminus by a pyroglutamate residue and the C-terminus by an amide. Typically, a specific antibody and ELISA method are used for their quantification in the insect central nervous system and haemolymph. For the latter, prior to executing the ELISA test, several pre-purification steps are required; they also involve a solid phase extraction cartridge. In the test, the AKH from the firebug *Pyrrhocoris apterus* known as Pyrap-AKH was employed. Its structure is: pGlu-Leu-Asn-Phe-Thr-Pro-Asn-Trp-NH<sub>2</sub> (Kodrík et al., 2000).



Sample Separation – 160 pmol-Pyrap-AKH



Control Sample – 160 pmol-Pyrap-AKH

### Ordering information

Item description	Membrane	Sorbent weight	Amount	Part number
<b>C18</b>				
Micro Spin SpeExtra™ MSPE C18 column, 0.22 µm Nylon membrane, 30 mg, 0.7 ml	Nylon	30 mg	50 pcs	MSP-5876-AB07
Micro Spin SpeExtra™ MSPE C18 column, 0.22 µm Nylon membrane, 50 mg, 0.7 ml	Nylon	50 mg	50 pcs	MSP-5876-AC07
Micro Spin SpeExtra™ MSPE C18 column, 0.22 µm PTFE hydrophilic membrane, 30 mg, 0.7 ml	PTFE hydrophilic	30 mg	50 pcs	MSP-5876-DB07
Micro Spin SpeExtra™ MSPE C18 column, 0.22 µm PTFE hydrophilic membrane, 50 mg, 0.7 ml	PTFE hydrophilic	50 mg	50 pcs	MSP-5876-DC07
Micro Spin SpeExtra™ MSPE C18 column, 0.22 µm PTFE hydrophobic membrane, 30 mg, 0.7 ml	PTFE hydrophobic	30 mg	50 pcs	MSP-5876-EB07
Micro Spin SpeExtra™ MSPE C18 column, 0.22 µm PTFE hydrophobic membrane, 50 mg, 0.7 ml	PTFE hydrophobic	50 mg	50 pcs	MSP-5876-EC07
Micro Spin SpeExtra™ MSPE C18 column, 0.22 µm PVDF membrane, 30 mg, 0.7 ml	PVDF	30 mg	50 pcs	MSP-5876-BB07
Micro Spin SpeExtra™ MSPE C18 column, 0.22 µm PVDF membrane, 50 mg, 0.7 ml	PVDF	50 mg	50 pcs	MSP-5876-BC07
<b>C18-P</b>				
Micro Spin SpeExtra™ MSPE C18-P column, 0.22 µm Nylon membrane, 15 mg, 0.7 ml	Nylon	15 mg	50 pcs	MSP-5879-AA07
Micro Spin SpeExtra™ MSPE C18-P column, 0.22 µm Nylon membrane, 30 mg, 0.7 ml	Nylon	30 mg	50 pcs	MSP-5879-AB07
Micro Spin SpeExtra™ MSPE C18-P column, 0.22 µm PTFE hydrophilic membrane, 30 mg, 0.7 ml	PTFE hydrophilic	30 mg	50 pcs	MSP-5879-DB07
Micro Spin SpeExtra™ MSPE C18-P column, 0.22 µm PTFE hydrophilic membrane, 50 mg, 0.7 ml	PTFE hydrophilic	50 mg	50 pcs	MSP-5879-DC07
Micro Spin SpeExtra™ MSPE C18-P column, 0.22 µm PTFE hydrophobic membrane, 30 mg, 0.7 ml	PTFE hydrophobic	30 mg	50 pcs	MSP-5879-EB07
Micro Spin SpeExtra™ MSPE C18-P column, 0.22 µm PTFE hydrophobic membrane, 50 mg, 0.7 ml	PTFE hydrophobic	50 mg	50 pcs	MSP-5879-EC07
Micro Spin SpeExtra™ MSPE C18-P column, 0.22 µm PVDF membrane, 30 mg, 0.7 ml	PVDF	30 mg	50 pcs	MSP-5879-BB07
Micro Spin SpeExtra™ MSPE C18-P column, 0.22 µm PVDF membrane, 50 mg, 0.7 ml	PVDF	50 mg	50 pcs	MSP-5879-BC07
<b>HLB</b>				
Micro Spin SpeExtra™ MSPE HLB column, 0.22 µm Nylon membrane, 5 mg, 0.7 ml	Nylon	5 mg	50 pcs	MSP-5877-AD07
Micro Spin SpeExtra™ MSPE HLB column, 0.22 µm Nylon membrane, 10 mg, 0.7 ml	Nylon	10 mg	50 pcs	MSP-5877-AE07
Micro Spin SpeExtra™ MSPE HLB column, 0.22 µm Nylon membrane, 15 mg, 0.7 ml	Nylon	15 mg	50 pcs	MSP-5877-AA07
Micro Spin SpeExtra™ MSPE HLB column, 0.22 µm Nylon membrane, 30 mg, 0.7 ml	Nylon	30 mg	50 pcs	MSP-5877-AB07
Micro Spin SpeExtra™ MSPE HLB column, 0.22 µm PTFE hydrophilic membrane, 5 mg, 0.7 ml	PTFE hydrophilic	5 mg	50 pcs	MSP-5877-DD07
Micro Spin SpeExtra™ MSPE HLB column, 0.22 µm PTFE hydrophilic membrane, 10 mg, 0.7 ml	PTFE hydrophilic	10 mg	50 pcs	MSP-5877-DE07
Micro Spin SpeExtra™ MSPE HLB column, 0.22 µm PTFE hydrophobic membrane, 5 mg, 0.7 ml	PTFE hydrophobic	5 mg	50 pcs	MSP-5877-ED07
Micro Spin SpeExtra™ MSPE HLB column, 0.22 µm PTFE hydrophobic membrane, 10 mg, 0.7 ml	PTFE hydrophobic	10 mg	50 pcs	MSP-5877-EE07
Micro Spin SpeExtra™ MSPE HLB column, 0.22 µm PVDF membrane, 5 mg, 0.7 ml	PVDF	5 mg	50 pcs	MSP-5877-BD07
Micro Spin SpeExtra™ MSPE HLB column, 0.22 µm PVDF membrane, 10 mg, 0.7 ml	PVDF	10 mg	50 pcs	MSP-5877-BE07
<b>Accessories</b>				
Micro Spin SpeExtra™, Outer tube only, 2 ml	-	-	50 pcs	MSP-0000-OT20

Note: MSPE columns are available with Cellulose Acetate membrane.

# Benefits

- Simple and fast sample preparation
- 2 in 1 micro-solid phase extraction and filtration in one step
- No need of syringe filter prior to analysis



Centrifugal tube (Outer tube)  
Microspin Filter (Inner tube)  
Sorbent bed (incl. 0.22 µm membrane)

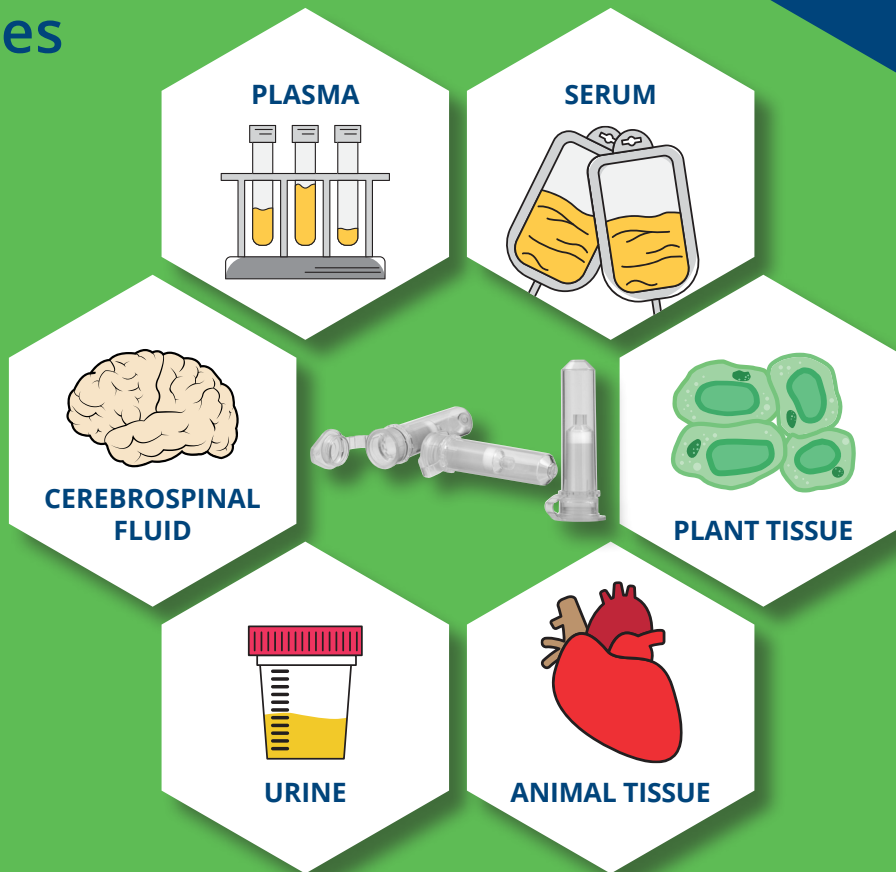
# Application areas

- Omics
- Clinical/toxicology
- Neuroimmunology
- Hormone research
- Biotechnology

# MSPE – unique technology

- Sample filtration included
- Simplified technique saving your time
- SPE manifold replaced by use of centrifugal filters

# Matrices



Distributor:



Please contact your local distributor for more information.  
[info@chromservis.eu](mailto:info@chromservis.eu)  
[www.chromservis.eu](http://www.chromservis.eu)

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