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

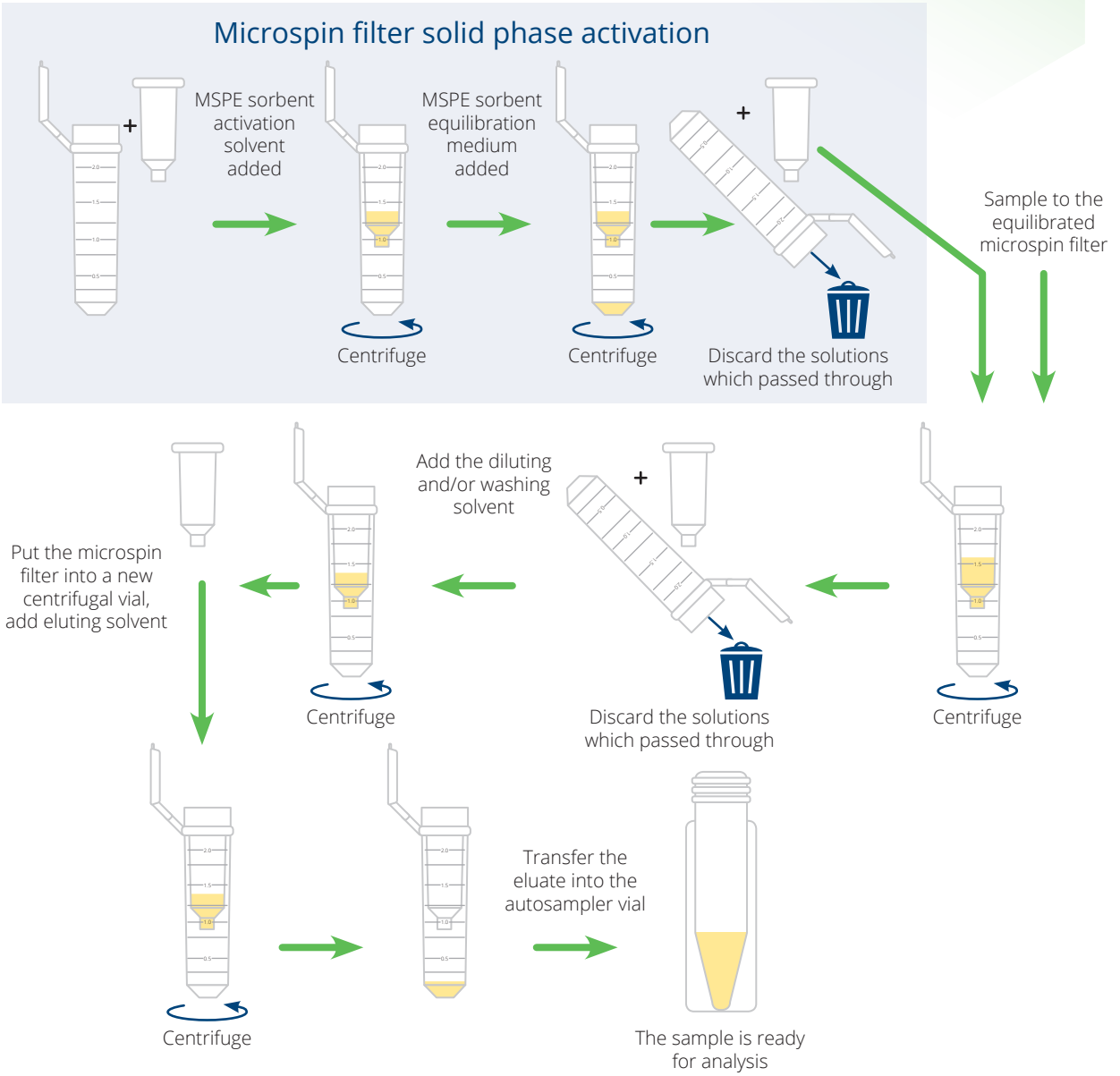
COMPACT

CLEAR

Centrifuging multiple samples at once

MSPE

General sample preparation workflow

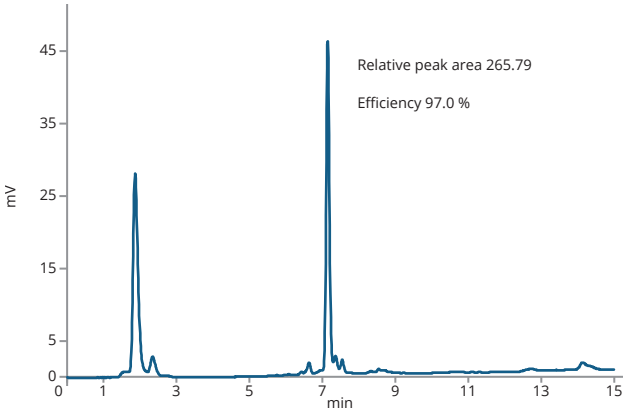


More information about MSPE sorbents can be found:

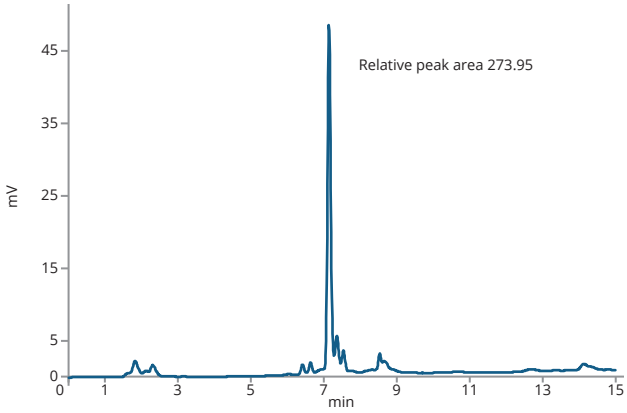
MSPE

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-NH2 (Kodrík et al., 2000).



Sample Separation – 160 pmol-Pyrap-AKH



Control Sample – 160 pmol-Pyrap-AKH

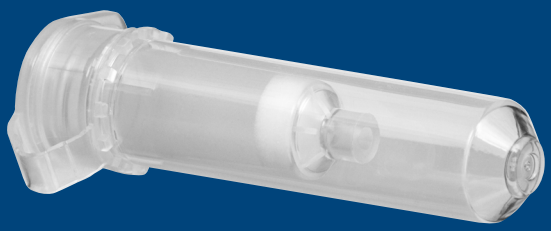
Ordering information

Item description	Membrane	Sorbent weight	Amount	Part number
C18				
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
C18-P				
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
HLB				
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
Accessories				
Micro Spin SpeExtra™, Outer tube only, 2 ml	–	–	50 pcs	MSP-0000-0T20

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)

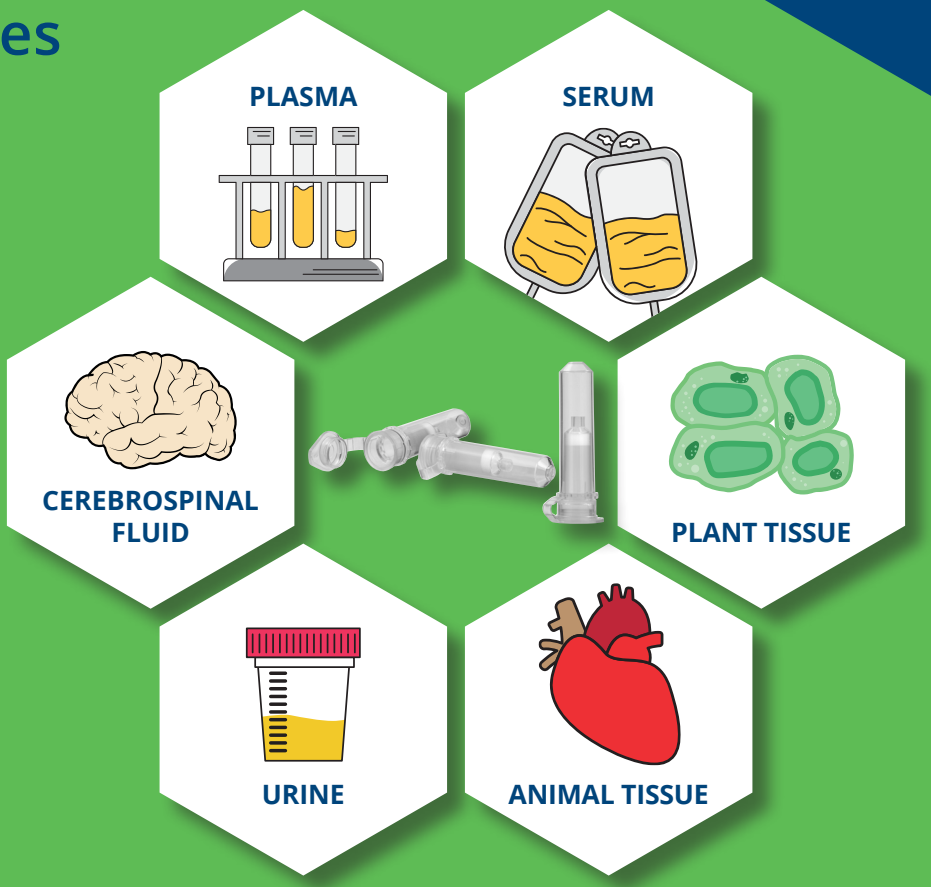
Application areas

- 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:

CHROMSERVIS

Please contact your local distributor for more information.
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www.chromservis.eu