



57328-U Supelco

SPME fiber assembly Divinylbenzene/Carboxen/Polydimethylsiloxane (DVB/CAR/PDMS)

needle size 24 ga, for use with manual holder

Synonym: StableFlex™ 1CM SPME FIBER PK3,MANUAL,50/30UM DVB/CARBOXEN-PD



FDS

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Conditionnement - SKU	Disponibilité	Prix (EUR)	Quantité
57328-U	Disponible pour expédition le 20.08.18 - A PARTIR DE	408.00	<input type="text" value="0"/>

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Propriétés

Related Categories	Analytical/Chromatography, Divinylbenzene/Carboxen/Polydimethylsiloxane (DVB/CAR/PDMS) fibers, SPME Fiber Assemblies, SPME Fibers and Holders, Sample Preparation & Purification, Plus...
material	StableFlex fiber
	gray hub plain
needle size	24 ga
packaging	pk of 3
d _f	50/30 µm
fiber L	1 cm
matrix active group	Divinylbenzene/Carboxen/Polydimethylsiloxane (DVB/CAR/PDMS) coating
compatibility	for analyte group flavors (volatiles and semivolatiles, C3-20) (MW 40-275)
	for use with manual holder

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Description

Application
Flavor Compounds

Footnote
Coating bonded to a flexible fused silica core, yielding a more suitable coating on a less breakable fiber. There may be a slight difference in extraction selectivity compared to the same coating on a standard fused silica core.

Legal Information
StableFlex is a trademark of Sigma-Aldrich Co. LLC

Informations Sécurité

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Documents

Certificat d'Analyse

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Protocoles et articles

Articles

<div>GC Analysis of Fresh and Rancid Potato Chips on SPB®-1 SULFUR after SPME using 50/30 µm DVB/Carboxen/PDMS Fiber</div> <div>From our library of Articles, Sigma-Aldrich presents GC Analysis of Fresh and Rancid Potato Chips on SPB®-1 SULFUR after SPME using 50/30 µm DVB/Carboxen/PDMS Fiber</div> <div>Keywords: AGE, Chromatin immunoprecipitation, Chromatography, Gas chromatography, Mass spectrometry, Oxidations, Purification, Size-exclusion chromatography, Solid phase microextractions</div>
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<div>Improved Determination of Volatile Organic Compounds in Water by SPME and GC/MS: ISO Standard 17943</div> <div>The analysis of water for volatile organic compounds is important due to their toxicity. The current methods for this determination lack of sensitivity, selectivity or capability for automation. This...</div> <div>Frank Michel¹, Yong Chen², Robert Shirey²</div> <div>¹ Sigma-Aldrich (part of Merck KGaA, Darmstadt, Germany), Taufkirchen, Germany ² MilliporeSigma, Bellefonte PA, USA</div> <div>Keywords: Carcinogens, Chromatography, Degradations, Detection methods, Electron capture detector, Environmental, Filtration, Flame ionization detector, Food Analysis, Gas chromatography, Gas chromatography mass spectrometry, Mass spectrometry, Pharmaceutical, Phase transitions, Sample preparations, Solid phase microextractions, Solvents, Sterilizations</div>
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[Simultaneous analysis of 10 trihalomethanes at nanogram per liter levels in water using solid-phase microextraction and gas chromatography mass-spectrometry.](#)
Sebastien Allard et. al
Journal of chromatography. A, 1238, undefined (2012-4-13)



Trihalomethanes are predominantly formed during disinfection of water via reactions of the oxidant with natural organic matter. Even though chlorinated and brominated trihalomethanes are the most widespread organic contaminants in drinking water, whe...[Read More](#)

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Solid phase microextraction coupled with comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry for high-resolution metabolite profiling in apples: implementation of structured separations for optimization of sample preparation procedure in complex samples.

Sanja Ristic et. al

Journal of chromatography. A, 1251, undefined (2012-7-10)

Metabolomics currently represents one of the fastest growing high-throughput molecular analysis platforms that refer to the simultaneous and unbiased analysis of metabolite pools constituting a particular biological system under investigation. In res...[Read More](#)

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Attraction of Culex mosquitoes to aldehydes from human emanations.

Helena M Leal et. al

Scientific reports, 7(1), undefined (2017-12-23)

Anecdotes related to preferential mosquito bites are very common, but to date there is no complete explanation as to why one out of two people systematically receives more mosquito bites than the other when both are equally accessible. Here we tested...[Read More](#)

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Headspace solid-phase microextraction combined with comprehensive two-dimensional gas chromatography time-of-flight mass spectrometry for the determination of volatile compounds from marine salt.

Isabel Silva et. al

Journal of chromatography. A, 1217(34), undefined (2010-7-17)

In this work, a methodology to characterise the volatile and semi-volatile compounds from marine salt by headspace solid-phase microextraction (HS-SPME) and comprehensive two-dimensional gas chromatography time-of-flight mass spectrometry (GCxGC/TOFM...[Read More](#)

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Performance evaluation of non-targeted peak-based cross-sample analysis for comprehensive two-dimensional gas chromatography-mass spectrometry data and application to processed hazelnut profiling.

Johannes Kiehl et. al

Journal of chromatography. A, 1243, undefined (2012-5-11)

The continuous interest in non-targeted profiling induced the development of tools for automated cross-sample analysis. Such tools were found to be selective or not comprehensive thus delivering a biased view on the qualitative/quantitative peak dist...[Read More](#)

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Putative sex pheromone of the Asian citrus psyllid, Diaphorina citri, breaks down into an attractant.

Odimar Z Zanardi et. al

Scientific reports, 8(1), undefined (2018-1-13)

Under laboratory conditions, mating activity in Asian citrus psyllid (ACP) started 4 days after emergence, peaked at day 7, and showed a clear window of activity starting 8 h into the photophase and extending through the first hour of the scotophase....[Read More](#)

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Determination of volatile organic compounds in water by headspace solid-phase microextraction gas chromatography coupled to tandem mass spectrometry with triple quadrupole analyzer.

M I Cervera et. al

Analytica chimica acta, 704(1-2), undefined (2011-9-13)

In the present work, a rapid method with little sample handling has been developed for determination of 23 selected volatile organic compounds in environmental and wastewater samples. The method is based on headspace solid-phase microextraction (SPME...[Read More](#)

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Enhanced performance of the microalga Chlorella sorokiniana remotely induced by the plant growth-promoting bacteria Azospirillum brasilense and Bacillus pumilus.

Edgar Amavizca et. al

Scientific reports, 7, undefined (2017-2-2)

Remote effects (occurring without physical contact) of two plant growth-promoting bacteria (PGPB) Azospirillum brasilense Cd and Bacillus pumilus ES4 on growth of the green microalga Chlorella sorokiniana UTEX 2714 were studied. The two PGPB remotely ...[Read More](#)

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Pressurised hot water extraction followed by headspace solid-phase microextraction and gas chromatography-tandem mass spectrometry for the determination of N-nitrosamines in sewage sludge.

Anna Llop et. al

Talanta, 88, undefined (2012-1-24)

A method for the quantitative determination of the nine EPA N-nitrosamines in sewage sludge was developed by using pressurised hot water extraction (PHWE) followed by headspace solid-phase microextraction (HS-SPME) and gas chromatography coupled to c...[Read More](#)

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Exploring the human urine metabolomic potentialities by comprehensive two-dimensional gas chromatography coupled to time of flight mass spectrometry.

Silvia M Rocha et. al

Journal of chromatography. A, 1252, undefined (2012-7-11)

Metabolomics represents an emerging issue that can aid in the diagnosis and/or prognosis of different diseases. Metabolomic study of urine is particularly interesting as it can be on the base of the developing of new faster and non-invasive methodolo...[Read More](#)

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Allergic asthma exhaled breath metabolome: a challenge for comprehensive two-dimensional gas chromatography.

M Caldeira et. al

Journal of chromatography. A, 1254, undefined (2012-7-28)

Allergic asthma represents an important public health issue, most common in the paediatric population, characterized by airway inflammation that may lead to changes in volatiles secreted via the lungs. Thus, exhaled breath has potential to be a matri...[Read More](#)

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Development of a method to determine essential oil residues in cow milk.

A Hallier et. al

Journal of dairy science, 96(3), undefined (2013-1-15)

Over the past few years, the use of essential oils in breeding has been gaining ground because of their wide range of application, especially in terms of antimicrobial activity, and the current emphasis on the use of natural compounds, particularly t...[Read More](#)

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Fragrance components of Platanthera bifolia subsp. osca.

Maurizio D'Auria et. al

Natural product research, 31(14), undefined (2017-3-11)

SPME-GC-MS analysis of the scent of Platanthera bifolia subsp. osca collected during the night showed as main components lilac alcohols B, C and D and lilac aldehydes A, B and C. Other significant chemical components were linalool and caryophyllene. ...[Read More](#)

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Simultaneous sampling and analysis of indoor air infested with Cimex lectularius L. (Hemiptera: Cimicidae) by solid phase microextraction, thin film microextraction and needle trap device.

In-Yong Eom et. al

Analytica chimica acta, 716, undefined (2012-1-31)

Air in a room infested by Cimex lectularius L. (Hemiptera: Cimicidae) was sampled simultaneously by three different sampling devices including solid phase microextraction (SPME) fiber coatings, thin film microextraction (TFME) devices, and needle tra...[Read More](#)

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Effectiveness of high-throughput miniaturized sorbent- and solid phase microextraction techniques combined with gas chromatography-mass spectrometry analysis for a rapid screening of volatile and semi-volatile composition of wines--a comparative study.

Berta Mendes et. al

Talanta, 88, undefined (2012-1-24)

In this study the feasibility of different extraction procedures was evaluated in order to test their potential for the extraction of the volatile (VOCs) and semi-volatile constituents (SVOCs) from wines. In this sense, and before they could be analy...[Read More](#)

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