



55464-U Supelco

Supel™ QuE

PSA/ENVI-Carb Tube 2, pk of 50, suitable for EN 15662:2008 per BS, centrifuge tube volume 15 mL , Shaker Compatible

Synonym: QuEChERS



FDS

Similar Products

Conditionnement - SKUDisponibilité

Prix (EUR) Quantité

55464-U

Seulement 6 en stock (d'autres en cours d'arrivage) - A PARTIR DE

70.50

0

Commandes Bulk?

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Propriétés

Related Categories	Analytical/Chromatography, EN 15662, Sample Preparation & Purification, Shaker Compatible 15 mL QuEChERS Cleanup Tubes, Solid Phase Extraction (SPE), Plus...
composition	Magnesium Sulfate, 900 mg Supelclean™ ENVI-Carb, 45 mg (Cat. No. 57210-U) Supelclean™ PSA, 150 mg (Cat. No. 52738-U)
packaging	pk of 50
centrifuge tube volume	15 mL , Shaker Compatible
suitability	suitable for EN 15662:2008 per BS
mode of chromatography	reversed phase

Description

Compatibility
Compatible with most QuEChERS shakers.

General description
Dispersive SPE (dSPE), often referred to as the "QuEChERS" method (Quick, Easy, Cheap, Effective, Rugged, and Safe), is modern sample prep technique that is becoming increasingly popular in the area of multi-residue pesticide analysis in food and agricultural products.

Using the QuEChERS method, food/agricultural samples are first extracted with an aqueous miscible solvent (e.g., acetonitrile) in the presence of high amounts of salts (e.g., sodium chloride and magnesium sulfate) and/or buffering agents (e.g. citrate) to induce liquid phase separation and stabilize acid and base labile pesticides, respectively. Upon shaking and centrifugation, an aliquot of the organic phase is subjected to further cleanup using SPE. Unlike traditional methods using SPE tubes, in dispersive SPE, cleanup is facilitated by mixing bulk amounts of SPE (e.g., Supelclean PSA, ENVI-Carb, and/or Discovery DSC-18) with the extract. After sample cleanup, the mixture is centrifuged and the resulting supernatant can either be analyzed directly or can be subjected to minor further treatment before analysis.

Supelco carries a line of vials and centrifuge tubes containing pre-determined amounts of salts and SPE sorbents to support the most common method configurations used today.

Suitability
Suitable for food/agricultural samples with higher levels of chlorophyll and carotinoides (e.g., red sweet pepper, spinach, lamb's lettuce, ruccolla, etc.). Ideal for clean up of 6 mL extract after initial food extraction and phase partitioning.

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

Informations Sécurité

Symbol	 GHS08
Signal word	Warning

Documents


Certificat d'Analyse

Entrez le Lot N°


Devis/ Commande de produits Bulk FDS

Hazard statements	H351
Precautionary statements	P280
RIDADR	NONH for all modes of transport
WGK Germany	1


Customers Also Viewed




55233-U
Supel™ QuE
PSA/ENVI-Carb Tube 2, pk of 50, suitable for EN 15662:2008 per BS




55474-U
Supel™ QuE
PSA/C18/ENVI-Carb Tube, pk of 50, suitable for 2007.01 per AOAC, centrifuge tube volume 15 mL , Shaker Compatible



55176-U
Supel™ QuE
PSA/ENVI-Carb™ (EN) Cleanup Tube 2, pack of 100, suitable for EN 15662:2008 per BS



55174-U
Supel™ QuE
PSA/ENVI-Carb™ (EN) Cleanup Tube 1, pack of 100, suitable for EN 15662:2008 per BS



55230-U
Supel™ QuE
PSA/ENVI-Carb Tube 1, pk of 50, suitable for EN 15662:2008 per BS

Recently Viewed



55447-U
Supel™ QuE
Verde Tube, centrifuge tube volume 2 mL, pack of 100 ea



55446-U
Supel™ QuE
PSA/ENVI-Carb Tube 1, pk of 50, suitable for EN 15662:2008 per BS, centrifuge tube volume 15 mL , Shaker Compatible



55442-U
Supel™ QuE Verde
Tube, centrifuge tube volume 15 mL, pack of 50 ea



55439-U
Supel™ QuE
PSA/C18 Tube (Shaker Compatible), pk of 50, suitable for EN 15662:2008 per BS, centrifuge tube volume 15 mL , Shaker



55438-U
QuEChERS Shaker and Rack Starter Kit
AC input 230 V, Schuko plug

Protocoles et articles

Articles

Solid Phase Extraction: Reversed-Phase Methodology
Reversed-phase SPE is considered the least selective retention mechanism when compared to normalphase or ion-exchange SPE. In other words, it may be difficult for a reversed-phase method or bonded ch...
Keywords: Environmental, Evaporation, Gas chromatography, High performance liquid chromatography, Homogenization, Metabolites, Phase transitions, Solid phase extractions, Solvents

Related Content

SPE Cartridges (Tubes) - Phase Selection Guide
The SPE Tube Configuraton Guide will help you choose the appropriate bed weight and cartridge dimensions.
Keywords: Agriculture, Calorimetry, Environmental, Fractionation, High performance liquid chromatography, Liquid chromatography mass spectrometry, Mass spectrometry, Pesticides, Pharmaceutical, Solid phase extractions

Documentation référencée

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[read abstract](#)
[Analysis of phenmedipham in agricultural products by HPLC].
Tsuyoshi Imazawa et. al
Shokuhin eiseigaku zasshi. Journal of the Food Hygienic Society of Japan, 46(6), undefined (2006-1-31)
An analytical method was developed for the determination of phenmedipham (PM) in agricultural products using reversed-phase high-performance liquid chromatography with UV detection. A sample was extracted with acetonitrile, and the acetonitrile layer...[Read More](#)

[read abstract](#)
Streamlined sample cleanup using combined dispersive solid-phase extraction and in-vial filtration for analysis of pesticides and environmental pollutants in shrimp.
Lijun Han et. al
Analytica chimica acta, 827, undefined (2014-5-17)
A new method of sample preparation was developed and is reported for the first time. The approach combines in-vial filtration with dispersive solid-phase extraction (d-SPE) in a fast and convenient cleanup of QuEChERS (quick, easy, cheap, effective, ...[Read More](#)

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Multi-class, multi-residue analysis of pesticides, polychlorinated biphenyls, polycyclic aromatic hydrocarbons, polybrominated diphenyl ethers and novel flame retardants in fish using fast, low-pressure gas chromatography-tandem mass spectrometry.
Yelena Sapozhnikova and Steven J Lehotay
Analytica chimica acta, 758, undefined (2012-12-19)

A multi-class, multi-residue method for the analysis of 13 novel flame retardants, 18 representative pesticides, 14 polychlorinated biphenyl (PCB) congeners, 16 polycyclic aromatic hydrocarbons (PAHs), and 7 polybrominated diphenyl ether (PBDE) congeners...[Read More](#)

[read abstract](#)

[Determination of diphenyl and o-phenylphenol in agricultural products by GC/MS].

Kunihiko Takahashi et. al

Shokuhin eiseigaku zasshi. Journal of the Food Hygienic Society of Japan, 49(6), undefined (2009-1-22)

A simple determination method of diphenyl (DP) and o-phenylphenol (OPP) in agricultural products by GC/MS was examined. DP and OPP were extracted with ethyl acetate in the presence of anhydrous sodium sulfate. After addition of n-butanol, the extract solution was...[Read More](#)

[read abstract](#)

Analysis of endocrine disrupting compounds, pharmaceuticals and personal care products in sewage sludge by gas chromatography-mass spectrometry.

Yong Yu and Laosheng Wu

Talanta, 89, undefined (2012-1-31)

Endocrine disrupting compounds (EDCs) and pharmaceuticals and personal care products (PPCPs) have been acknowledged as emerging pollutants due to widespread contamination in environment. A rapid and reliable analytical method, based on ultrasonic extraction...[Read More](#)

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Detection of emerging contaminants (UV filters, UV stabilizers and musks) in marine mussels from Portuguese coast by QuEChERS extraction and GC-MS/MS.

M Picot Groz et. al

The Science of the total environment, 493, undefined (2014-6-20)

The UV filters and musk fragrances have come into focus because these compounds are contained and increasingly used not only in sunscreen products but also in many products of daily use, such as cosmetics, skin creams, plastics or varnish. In view of...[Read More](#)

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Comparison of QuEChERS sample preparation methods for the analysis of pesticide residues in fruits and vegetables.

Steven J Lehotay et. al

Journal of chromatography. A, 1217(16), undefined (2010-2-11)

This article describes the comparison of different versions of an easy, rapid and low-cost sample preparation approach for the determination of pesticide residues in fruits and vegetables by concurrent use of gas and liquid chromatography (GC and LC)...[Read More](#)

[read abstract](#)

[Determination of fungicide anilinopyrimidine residues in food by series solid phase extraction-high performance liquid chromatography-tandem mass spectrometry].

Dajie Chen et. al

Se pu = Chinese journal of chromatography, 30(9), undefined (2013-1-5)

A high performance liquid chromatography-tandem mass spectrometry (HPLC-MS/MS) method was established for the determination of fungicide anilinopyrimidine residues including pyrimethanil, mepanipyrim, and cyprodinil in foodstuffs with series solid phase extraction...[Read More](#)

[read abstract](#)

Solid-phase extraction of polar pesticides from environmental water samples on graphitized carbon and Empore-activated carbon disks and on-line coupling to octadecyl-bonded silica analytical columns.

J Slobodnik et. al

Journal of chromatography. A, 750(1-2), undefined (1996-10-25)

The suitability of Empore-activated carbon disks (EACD), Envi-Carb graphitized carbon black (GCB) and CPP-50 graphitized carbon for the trace enrichment of polar pesticides from water samples was studied by means of off-line and on-line solid-phase extraction...[Read More](#)

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[Simultaneous determination of dichlorvos, trichlorfon and naled in fruits and vegetables by liquid chromatography with tandem mass spectrometry].

Sachiyo Ibuki et. al

Shokuhin eiseigaku zasshi. Journal of the Food Hygienic Society of Japan, 48(5), undefined (2007-11-22)

A method for simultaneous determination of Dichlorvos (DDVP), Trichlorfon (DEP) and Naled (BRP) in fruits and vegetables by liquid chromatography with tandem mass spectrometry (LC/MS/MS) was developed. Pesticides were extracted with ethyl acetate followed by...[Read More](#)

[read abstract](#)

Field amplified sample injection-capillary zone electrophoresis for the analysis of amprolium in eggs.

Anna Martínez-Villalba et. al

Electrophoresis, 34(6), undefined (2013-1-22)

Veterinary medicines are widely administered to farm animals since they keep animals healthy at overcrowded conditions. Nevertheless the continuous administration of medicines to farm animals can frequently lead to the presence of residues of veterinary drugs...[Read More](#)

[read abstract](#)

Determination of biogenic halogenated methyl-phenyl ethers (halogenated anisoles) in the picogram m(-3) range in air.

U Führer et. al

Analytical and bioanalytical chemistry, 354(3), undefined (1996-1-1)

Halogenated anisoles (methyl-phenyl ethers) appear to be ubiquitous organic trace compounds in the environment. An analytical method is presented for analyzing the altogether 134 congeners of chloro-, bromo- and mixed bromochloro-anisoles on an isomeric...[Read More](#)

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Determination of carbamates in edible vegetable oils by ultra-high performance liquid chromatography-tandem mass spectrometry using a new clean-up based on zirconia for QuEChERS methodology.

David Moreno-González et. al

Talanta, 128, undefined (2014-7-26)

In this study a fast, selective and sensitive multiresidue method based on QuEChERS methodology has been evaluated and validated for the determination of carbamate pesticides, in edible vegetable oils by UHPLC-MS/MS. A new clean-up sorbent, Supel(TM)...[Read More](#)

[read abstract](#)

Simultaneous determination of a variety of endocrine disrupting compounds in carrot, lettuce and amended soil by means of focused ultrasonic solid-liquid extraction and dispersive solid-phase extraction as simplified clean-up strategy.

L Mijangos et. al

Journal of chromatography. A, 1389, undefined (2015-3-10)

The present study is focused on the development of an analytical method based on focused ultrasonic solid-liquid extraction (FUSLE) followed by dispersive solid-phase extraction (dSPE) clean-up and liquid chromatography-triple quadrupole tandem mass spectrometry...[Read More](#)

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High-Throughput Analytical Techniques for Multiresidue, Multiclass Determination of 653 Pesticides and Chemical Pollutants in Tea-Part IV: Evaluation of the Ruggedness of the Method, Error Analysis, and Key Control Points of the Method.

Chun-Lin Fan et. al

Journal of AOAC International, 98(1), undefined (2015-4-11)

A 3 month study was conducted on the ruggedness of a multiresidue method for accuracy and stability. The results indicate that in terms of Youden pair ratios of 201 pesticide aged tea samples falling approximately within 1.00-1.20 of the ratio of the...[Read More](#)

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Produits associés

