SIGMA-ALDRICH

RAD130S Supelco

radiello™ BTEX/VOC Starter Kit, CS2 Desorption

Synonym: **radiello™ Starter Kits**

FDS Similar Products

Conditionnement - SKU	Disponibilité	Prix (EUR)	Quantité
RAD130S	Disponible pour expàdition le 31.08.18 - A PARTIR DE	73.00	0

Commandes Bulk? AJOUTER AU PANIER

Propriétés

Related Categories	*radiello*® Diffusive Sampling Products, Air Monitoring, Analytical/Chromatography, Passive/Diffusive Sampling, Sample Preparation & Purification, Plus...
packaging	**pkg of 1 kit (Kit includes: 2 RAD130 adsorbing cartridges and barcode labels, 1 RAD120 white diffusive body, 1 RAD121 triangular support plate, 1 instruction sheet)**
matrix	**SS net (100 mesh, 5.8 mm diam.), activated with activated charcoal (30-50 mesh)**
Agency/Method	**EPA TO-14A (*Note: This product is not officially specified in the method, *it may be* suitable for use for sampling compound(s) listed in the method*)**
	EPA TO-15 (*Note: This product is not officially specified in the method, *it may be* suitable for use for sampling compound(s) listed in the method*)
	EPA TO-17 (*Note: This product is not officially specified in the method, *it may be* suitable for use for sampling compound(s) listed in the method*)
	NIOSH 1500 (*Note: This product is not officially specified in the method, *it may be* suitable for use for sampling compound(s) listed in the method*)
	NIOSH 1501 (*Note: This product is not officially specified in the method, *it may be* suitable for use for sampling compound(s) listed in the method*)
	NIOSH 2549 (*Note: This product is not officially specified in the method, *it may be* suitable for use for sampling compound(s) listed in the method*)
	OSHA 1002 (*Note: This product is not officially specified in the method, *it may be* suitable for use for sampling compound(s) listed in the method*)
	OSHA 1004 (*Note: This product is not officially specified in the method, *it may be* suitable for use for sampling compound(s) listed in the method*)
	OSHA 111 (*Note: This product is not officially specified in the method, *it may be* suitable for use for sampling compound(s) listed in the method*)
compatibility	**for sampling BTEX / VOCs (CS ₂ Desorption)**

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Description

Application

A radiello™ diffusive sampler may be used for thermal desorption during passive sampling, in an comparative study done to evaluate the relative performance of active and passive sampling methods in order to analyse the volatile organic compounds (VOCs) in ambient air.[1] A radiello™ cartridge packed with Carbograph 4 may also be used in diffusive sampling to determine time-weighted average volatile organic compound (VOC) concentration in occupational hygiene and environmental air monitoring.

[2] A radiello™ diffusive sampler may also be used to monitor the cadaveric VOCs released by decomposing pig carcasses in three biotopes (crop field, forest, urban site).[3]

General description

Each RAD130S Starter Kit includes:
Two radiello cartridge adsorbents (RAD130) for VOCs - CS2 Desorption (Note: 1 x cartridge for sampling; and1 x for blank)
1 x Triangular support plate (RAD121)
1 x vertical adapter for personal sampling (RAD122)
1 x white diffusive body (RAD120)
Detailed sampling/analysis instructions

Radiello Starter Kits are ideal for introducing you to the product and include everything you need to take one complete sample. No additional parts are required. Each kit includes the following items:

Each RAD130S Starter Kit Includes:
Two radiello cartridge adsorbents - Solvent Desorption Note: 1 x cartridge for sampling; and 1 x for blank)
1 x Triangular support plate (RAD121)
1 x vertical adapter for personal sampling (RAD122)
1 x white diffusive body (RAD120)
1 x barcode label (RAD190)
Detailed sampling/analysis instructions

Each RAD141S and 145S Starter Kit Includes:
Two radiello cartridge adsorbents - Thermal Desorption (Note: 1 x cartridge for sampling; and 1 x for blank)
1 x Triangular support plate (RAD121)
1 x vertical adapter for personal sampling (RAD122)
1 x yellow diffusive body (RAD1202)
1 x barcode label (RAD190)
Detailed sampling/analysis instructions

Legal Information
radiello is a trademark of Institi Clinici Scientifici Maugeri

Informations Sécurité

Aucune information relative à la sécurité de ce produit est actuellement disponible.

Documents

Certificat d'Analyse

Entrez le Lot N°

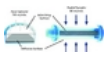
Devis/ Commande de produits Bulk FDS

Customers Also Viewed

RAD1231
radiello™ *ready-to-use* Diffusive Sampler
for sampling BTEX and VOCs (CS_2 Desorption), pk of 5

RAD145S
radiello™ BTEX/VOC Starter Kit, Thermal Desorption

RAD405
radiello™ BTEX Calibration Kit (CS_2 Desorption)



RAD120
radiello™ Diffusive Bodies
white, configured for general use, pk of 20

RAD145
radiello™ Cartridge Adsorbents
for sampling BTEX and VOCs (thermal desorption), matrix SS net (3 x 8 µm, 4.8 mm diam.), Carbograph, pk of 20

Recently Viewed

RAD130
radiello™ Cartridge Adsorbents
for sampling BTEX and VOCs (CS_2 Desorption), matrix SS net (100 mesh, 5.8 mm diam.), activated with activated charcoal

RAD1261
radiello™ On-Field Thermometer
configured for ready-to-use (rtu) samplers, Include one rtu vertical adapter for each thermometer, pk of 3

RAD127
radiello™ On-Field Thermometer
Reader, pk of 1

RAD126
radiello™ On-Field Thermometer
Includes one standard Radiello vertical adapter (RAD122) for each thermometer, configured for standard use, pk of 3

RAD125
radiello™ Anesthetic Gases and Vapor Sampler

Protocoles et articles

Articles

How Does the Diffusive Sampler Work and Why is it so Special?

The diffusive sampler is a closed box, usually cylindrical. Of its two opposite sides, one is “transparent” to gaseous molecules which cross it, and are adsorbed onto the second side. The former side...
Keywords: Adsorption, Diffusion, Diffusive sampling, Environmental, Flame ionization detector, Mass spectrometry, PAGE, Sample preparations

How to use the radiello® Diffusive Air Sampler

From our library of Articles, Sigma-Aldrich presents How to use the radiello® Diffusive Air Sampler

What is radiello® diffusive sampling?

In the mid 1990's, Dr. Vincenzo Cocheo, director of the Fondazione Salvatore Maugeri, Padova, Italy, in collaboration with the European Commission's Joint Research Center and other institutions, deve...
Keywords: Diffusion, Gas chromatography, Mass spectrometry, Sample preparations

radiello® Air Sampler Components

The essential parts of radiello are the adsorbing cartridge, the diffusive body, the supporting plate and the adhesive label with the bar code indication. Apart from the adsorbing cartridge, if not d...
Keywords: Sample preparations

radiello® Diffusive Air Sampler Calibration Solutions & Kits

RAD171 relieves you from the task of preparing the sodium sulfide standard solution for the calibration curve used for the determination of H2S by the cartridge RAD170. Since sodium sulfide is deliqu...
Keywords: High performance liquid chromatography, PAGE, Purification, Titrations

radiello® Diffusive Air Sampler Maintenance

When exposed outdoors or in a workplace environment, the diffusive body may get dirty from airborne dust. Fine particles (PM10) are especially harmful to yellow diffusive bodies since they can obstru...
Keywords: Detergents, Solvents

radiello® Passive Air Sampler Overview and Applications

From our library of Articles, Sigma-Aldrich presents radiello® Passive Air Sampler Overview and Applications
Keywords: Diffusive sampling, Sample preparations

radiello® Ready-to-Use

The ready-to-use version may be advantageous when you prefer not to assemble all of the components on field. It can be purchased as it is or in separate parts to be assembled by the customer. In the ...
Keywords: Sample preparations

Documentation référencée

Did you use this product in your Paper? If so click here.

read abstract

Comparative study of the adsorption performance of an active multi-sorbent bed tube (Carbotrap, Carbopack X, Carboxen 569) and a Radiello(®) diffusive sampler for the analysis of VOCs.
E Gallego et. al
Talanta, 85(1), undefined (2011-6-8)
A simple comparison is made to evaluate the relative performance of active and passive sampling methods for the analysis of volatile organic compounds (VOCs) in ambient air. The active sampling is done through a multi-sorbent bed tube (Carbotrap, Car...Read More

read abstract

Behavior of the GABIE, 3M 3500, PerkinElmer Tenax TA, and RADIELLO 145 diffusive samplers exposed over a long time to a low concentration of VOCs.
Benoît Oury et. al
Journal of occupational and environmental hygiene, 3(10), undefined (2006-8-16)
Diffusive sampling is particularly suited to determine time-weighted average volatile organic compound (VOC) concentration in occupational hygiene and environmental air monitoring. The purpose of this study was to measure the sampling rate variation ...Read More

read abstract

Cadaveric volatile organic compounds released by decaying pig carcasses (Sus domesticus L.) in different biotopes.
J Dekeirsschieter et. al
Forensic science international, 189(1-3), undefined (2009-5-9)
Forensic entomology uses pig carcasses to surrogate human decomposition and to investigate the entomofaunal colonization. Insects communicate with their environment through the use of chemical mediators, which in the case of necrophagous insects, may...Read More

read abstract

Development of a versatile, easy and rapid atmospheric monitor for benzene, toluene, ethylbenzene and xylenes determination in air.
Francesc A Esteve-Turrillas et. al
Journal of chromatography. A, 1216(48), undefined (2009-10-27)
A new procedure for the passive sampling in air of benzene, toluene, ethylbenzene and xylene isomers (BTEX) is proposed. A low-density polyethylene layflat tube filled with a mixture of solid phases provided a high versatility tool for the sampling o...Read More

read abstract

VOC in an urban and industrial harbor on the French North Sea coast during two contrasted meteorological situations.
Joelle Roukos et. al
Environmental pollution (Barking, Essex : 1987), 157(11), undefined (2009-7-8)
Two measurement campaigns of volatile organic compounds (VOC) were carried out in the industrial city of Dunkerque, using Radiello passive samplers during winter (16-23 January) and summer (6-13 June) 2007. 174 compounds were identified belonging to ...Read More

read abstract

Comparison of exposure assessment methods in occupational exposure to benzene in gasoline filling-station attendants.
Mariella Carrieri et. al
Toxicology letters, 162(2-3), undefined (2005-11-18)
The aim of this study was to assess gasoline filling-station attendants' exposure to benzene and to determine which biological exposure index (BEI), trans,trans-muconic acid (t,t-MA) or S-phenylmercapturic acid (S-PMA), shows better correlation with ...Read More

read abstract

Assessing the impact of petrol stations on their immediate surroundings.
Isabel M Morales Terrés et. al
Journal of environmental management, 91(12), undefined (2010-9-3)
This paper describes a novel methodology for evaluating the extent to which petrol stations affect their surroundings. The method is based on the fact that the ratio of the concentrations of aliphatic and aromatic hydrocarbon pollutants in the air of...Read More
Study of the dispersion of VOCs emitted by a municipal solid waste landfill Chiriac, R., et al. Atmospheric Environment 43 (11), 1926-1931, (2009)
Benzene exposure and the effect of traffic pollution in Copenhagen, Denmark Skov, H., et al. Atmospheric Environment 35 (14), 2463-2471, (2001)

read abstract

[Lesser validity of urinary benzene than S-phenylmercapturic acid for measuring occupational and environmental exposure to very low concentrations of benzene].
P Lovreglio et. al
Giornale italiano di medicina del lavoro ed ergonomia, 33(2), undefined (2011-7-30)
To study the validity of urinary benzene as a biomarker of low and very low exposure to this toxicant, as compared with t,t-muconic acid (t,t-MA) and S-phenylmercapturic acid (SPMA), also taking into account the influence of cigarette smoking and co-...Read More

read abstract

Personal exposure to volatile organic compounds in the Czech Republic.
Vlasta Svecova et. al
Journal of exposure science & environmental epidemiology, 22(5), undefined (2012-6-7)
Personal exposures to volatile organic compounds (VOCs) were measured in the three industrial cities in the Czech Republic, Ostrava, Karvina and Havirov, while the city of Prague served as a control in a large-scale molecular epidemiological study id...Read More
The AIRMEX study - VOC measurements in public buildings and schools/kindergartens in eleven European cities: Statistical analysis of the data Geiss, O., et al. Atmospheric Environment 45 (22), 3676-3684, (2011)
High Uptake Rate Radial Diffusive Sampler Suitable for Both Solvent and Thermal Desorption Cocheo, V., et al. American Industrial Hygiene Association Journal 57 (10), 897-904, (1996)

read abstract

Biological monitoring of exposure to perchloroethylene in dry cleaning workers.
Isabella Macca et. al
La Medicina del lavoro, 103(5), undefined (2012-10-20)
Perchloroethylene (PCE) is the most widely used solvent in dry cleaning. The aim was to evaluate PCE pollution and to identify the most reliable biological indicators for the assessment of workers' exposure. The study was performed in 40 dry cleaning...Read More

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Environmental and urinary reference values as markers of exposure to hydrocarbons in urban areas.
C Minoia et. al
The Science of the total environment, 192(2), undefined (1996-12-2)
A study using individual dosimetry to evaluate the daily inhaled dose of sixteen aromatic and aliphatic hydrocarbons in three groups of primary school children, living in three Italian towns with 50,000 inhabitants or less, (Treviglio-Lombardy; Poggi...Read More
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Produits associés