

New!

Strata Activated Carbon

Reproducible Extraction of Polar Analytes

- Cost-efficient sample prep
- Available in two formats: 2 g and 400 mg
- For EPA methods 521, 522, 8270, and more

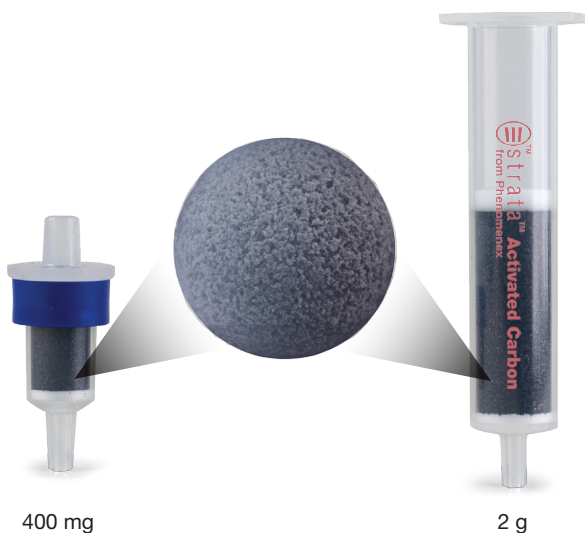




Strata Activated Carbon

Reproducible and **cost-efficient** extraction of polar analytes from aqueous matrices

Strata Activated Carbon is a high surface area fully porous sorbent that provides better retention of polar compounds compared to C8 and C18 silica products.

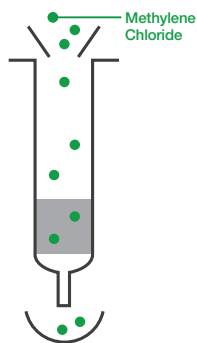


Product Benefits

- High quality chromatography-grade porous carbon
- Improved reproducibility and recovery of polar analytes
- Prescribed for EPA methods 521, 522, and 8270
- Suitable for extraction of 1,4-Dioxane, Nitrosamines, and Acrylamide
- Available in 2 g and 400 mg format

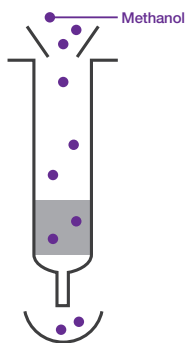
Steps in Polar Analytes Extraction Using Strata Activated Carbon

1a. CONDITION



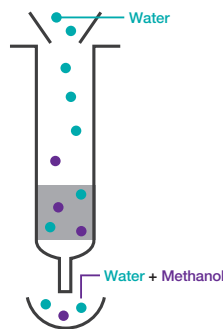
2 x 10 mL
Methylene Chloride

1b. CONDITION



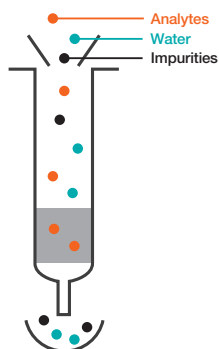
2 x 10 mL Methanol

2. EQUILIBRATE



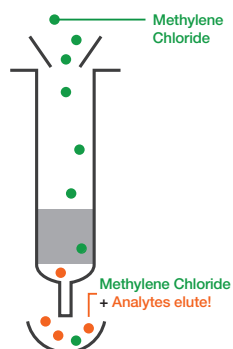
2 x 10 mL Water

3. LOAD SAMPLE



500 mL water sample
spiked with internal
standard. Dry for 10 min.

4. ELUTE ANALYTE



3 x 3 mL
Methylene Chloride

REMOVE MOISTURE

Pass the eluent through Methylene Chloride
prewetted Strata Sodium Sulfate Giga™ Tubes,
5 g / 20 mL (Part No. [8B-S124-LEG](#)) and wash
with 5 mL Methylene Chloride.

RECONSTITUTE

Evaporate solvent under Nitrogen to required
volume and reconstitute with Methylene
Chloride.





Reproducible Extraction of Nitrosamines From Water by EPA 521 on Strata™ Activated Carbon

Sample Preparation Steps

Phenomenex [CS0-9209](#)

Part No.: Strata Activated Carbon, 2 g / 6 mL

[8B-S124-LEG](#)

Strata Sodium Sulfate Giga™ Tubes, 5 g / 20 mL

Part No.: EU52112M6

Method 521 2000 mg, 6 mL

Condition: 2 X 3 mL Methylene Chloride and soak for 2 min
2 X 3 mL Methanol and soak for 2 min

Equilibrate: 3 X 3 mL reagent water

Load: 500 mL water sample spiked with internal standard

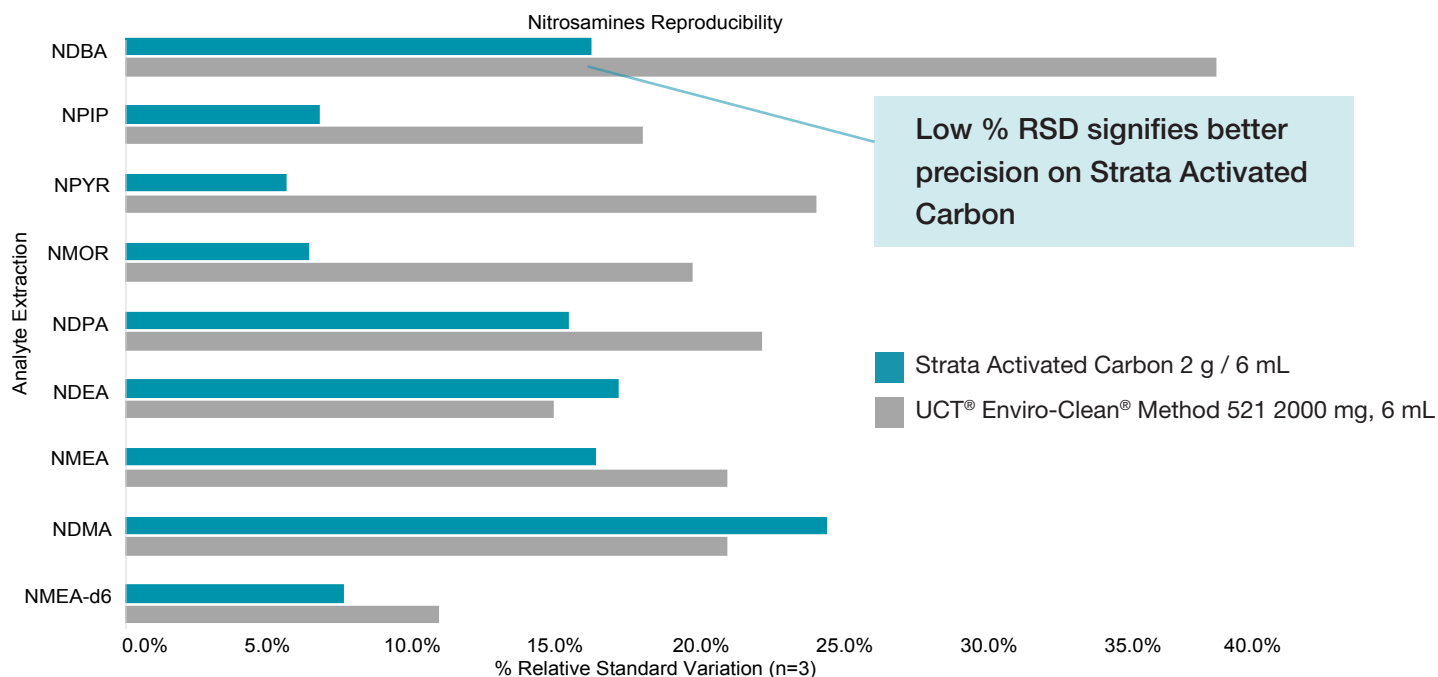
Dry: Dry cartridge for 10 min

Elute: 4 X 3 mL Methylene Chloride (Total 12 mL)

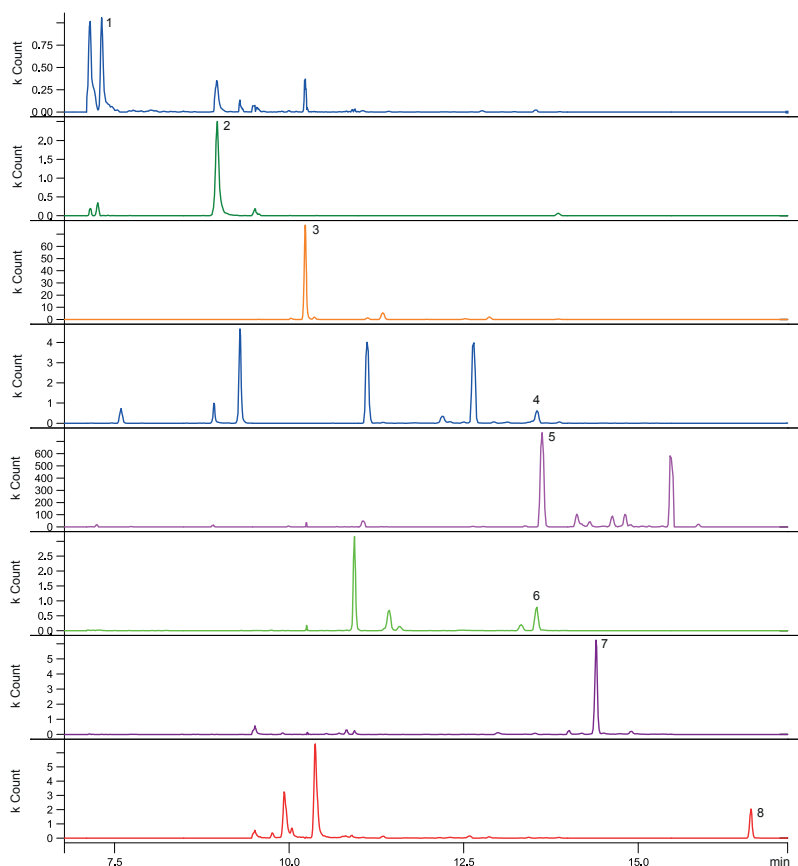
Water Removal: Pass 12 mL eluent from previous step through Strata Sodium Sulfate cartridge, prewetted with Methylene Chloride to remove water and wash with 3 mL Methylene Chloride

Reconstitute: Dry the eluent under Nitrogen at 20-25 °C to 0.9 mL volume and reconstitute to 1 mL with Methylene Chloride

Low Variability and High Reproducibility for EPA 521 on Strata™ Activated Carbon



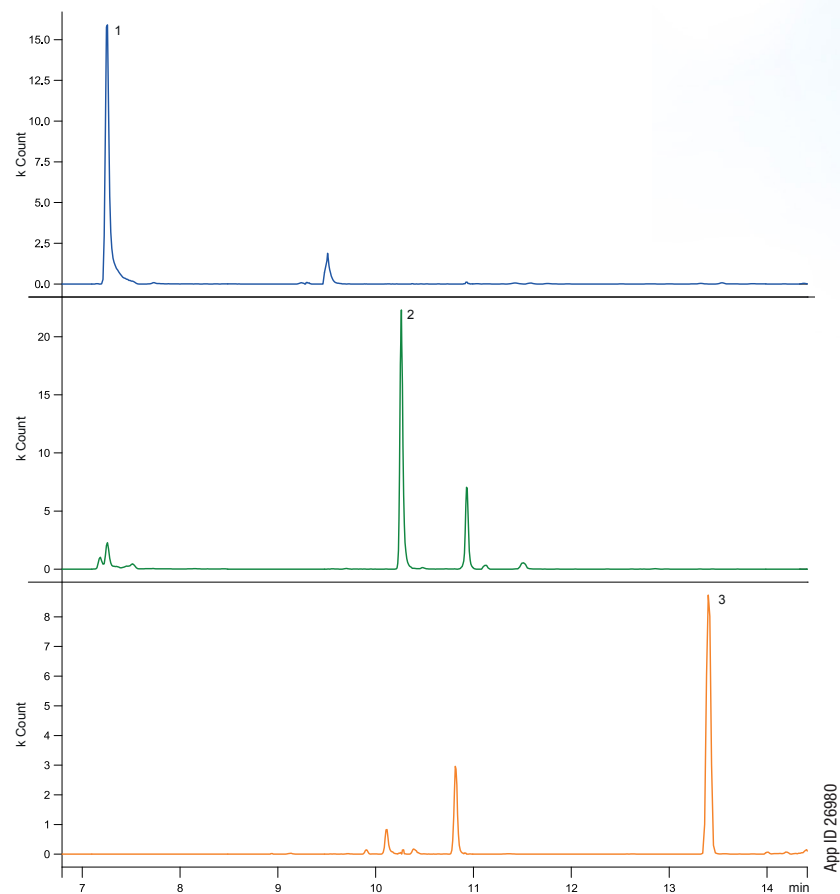
Retention Identification of Extracted Nitrosamines on a Zebron™ ZB-5MS_{PLUS} GC Column



Peak No.	RT (min)	Analyte Name
1	7.299	NDMA
2	8.967	NMEA
3	10.367	NDEA
4	13.503	NDPA
5	13.551	NPYR
6	13.631	NMOR
7	14.407	NPIP
8	16.623	NDBA

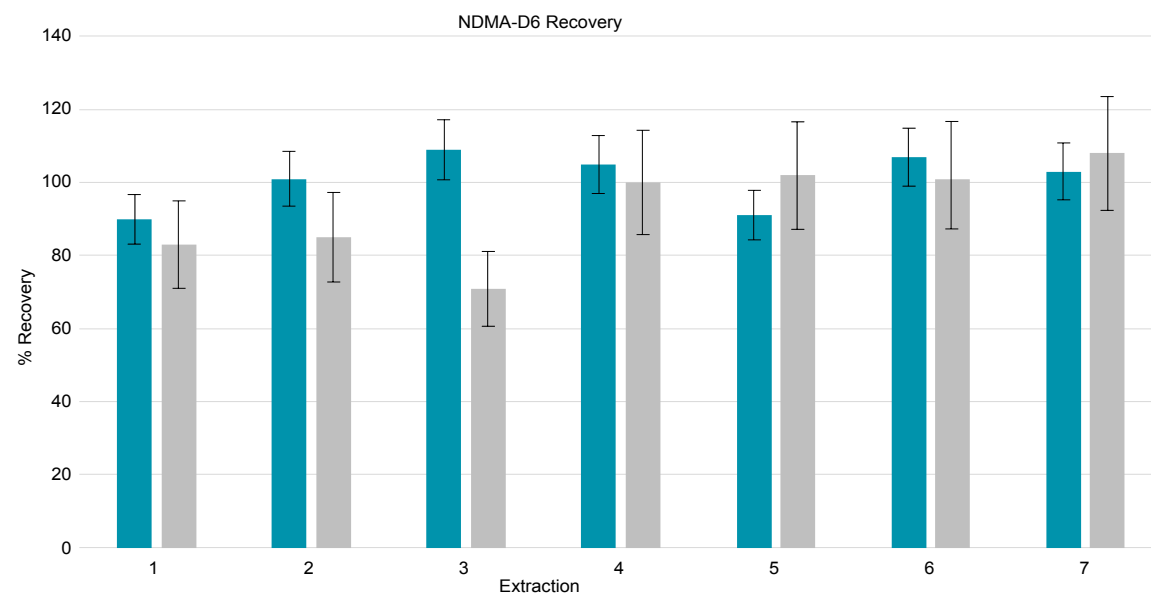
App ID 26981

Retention Identification of Extracted Nitrosamines on a Zebron™ ZB-5MS_{PLUS} GC Column



Peak No.	RT (min)	Analyte Name
1	7.236	NDMA-d6 (SS)
2	10.268	NDEA-d10 (IS)
3	13.413	NDPA d14 (IS)

Reproducibility of NDMA-D6 Recovery

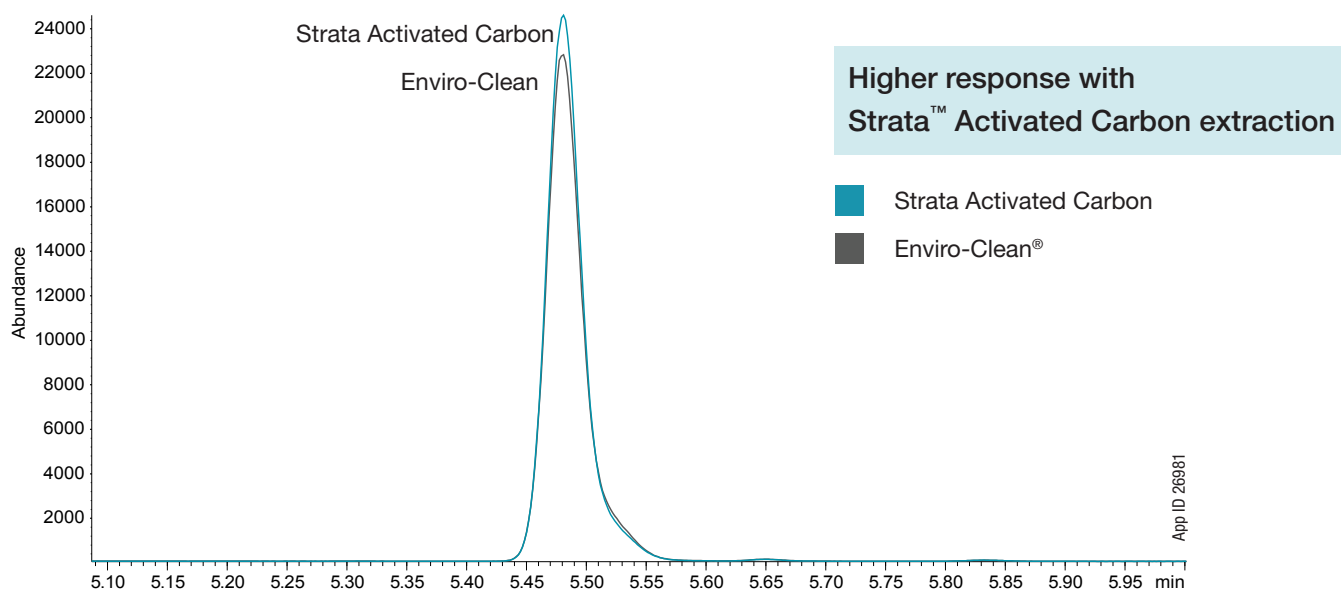


- Strata™ Activated Carbon 2 g / 6 mL
- UCT® Enviro-Clean® Method 521 2000 mg, 6 mL

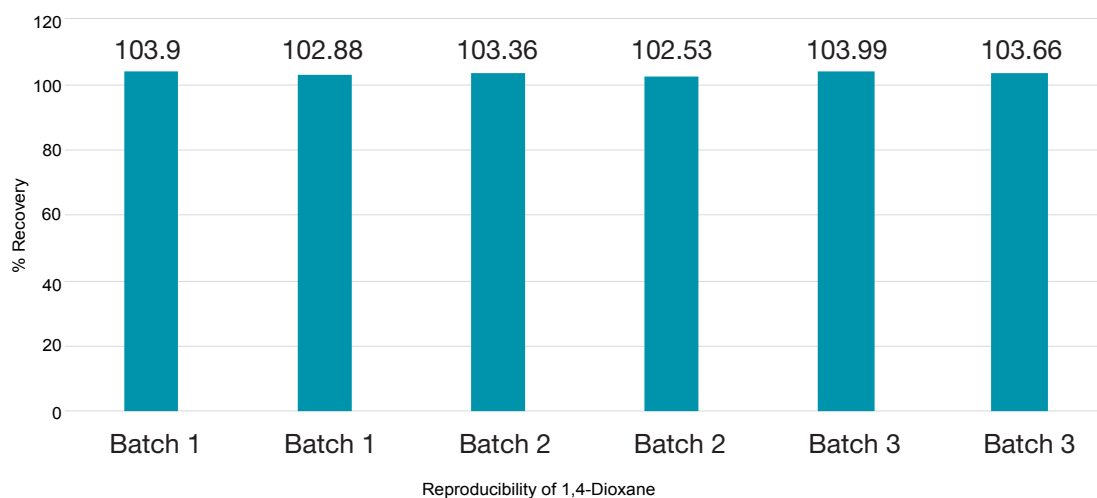
Shorter Standard Deviation bars signifies reproducible extraction of Nitrosamines on Strata Activated Carbon

Download complete application

Reproducible Extraction of 1,4-Dioxane from Water (Modified EPA 8270 / 522)



Batch-to-Batch Reproducibility with Strata Activated Carbon

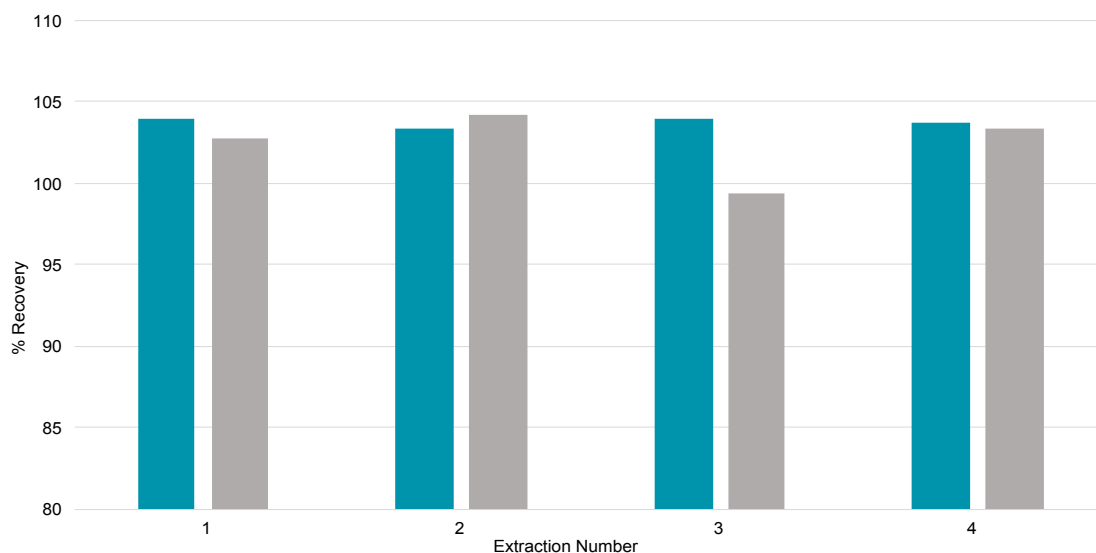


[Download Tech Note TN-0147](#)

[Download Application Note AN-1102](#)

Have questions? We are here to help.
Visit www.phenomenex.com/Chat

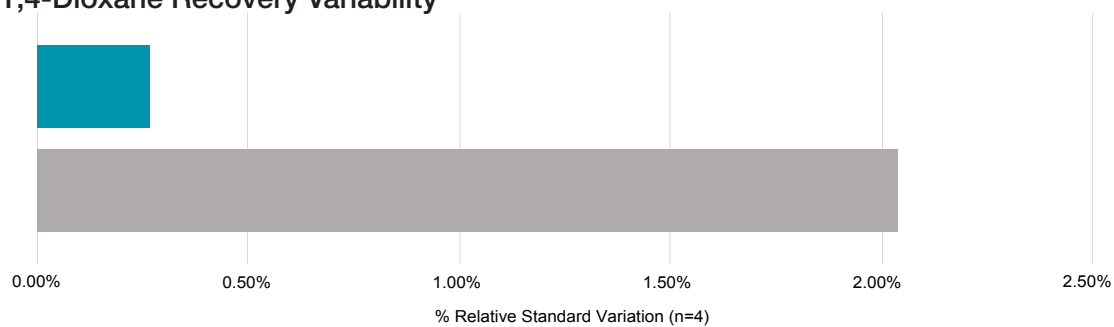
% Recovery for 1,4-Dioxane



Strata™ Activated Carbon 2 g / 6 mL

UCT® Enviro-Clean® Method 521 2000 mg, 6 mL

1,4-Dioxane Recovery Variability



Strata Activated Carbon 2 g / 6 mL

UCT Enviro-Clean Method 521 2000 mg, 6 mL

[Download complete application](#)



Need to Process Small Sample Volume?

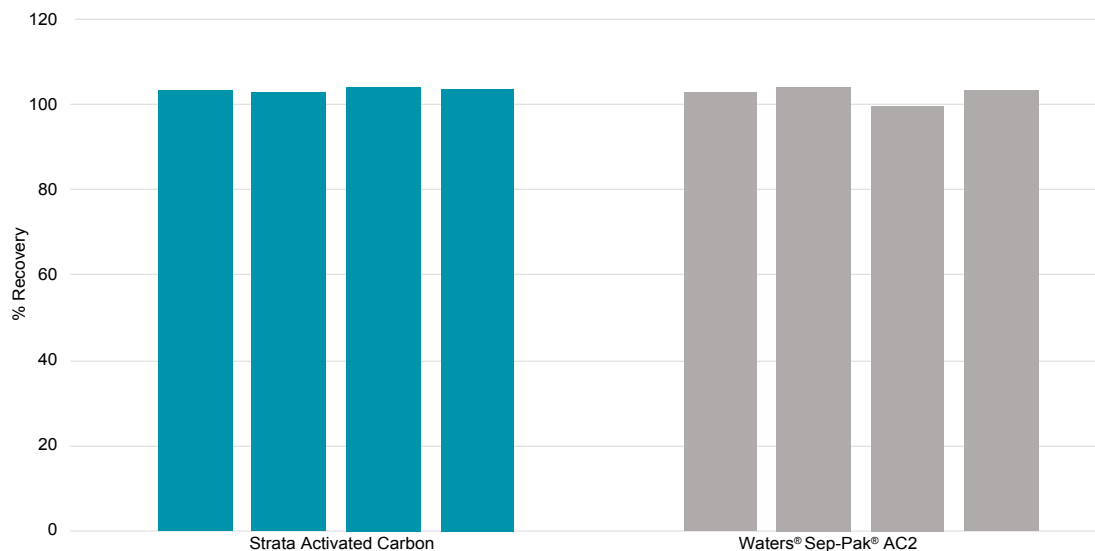
We've got you covered with Strata™ Activated Carbon 400 mg format

2 g / 6 mL tube

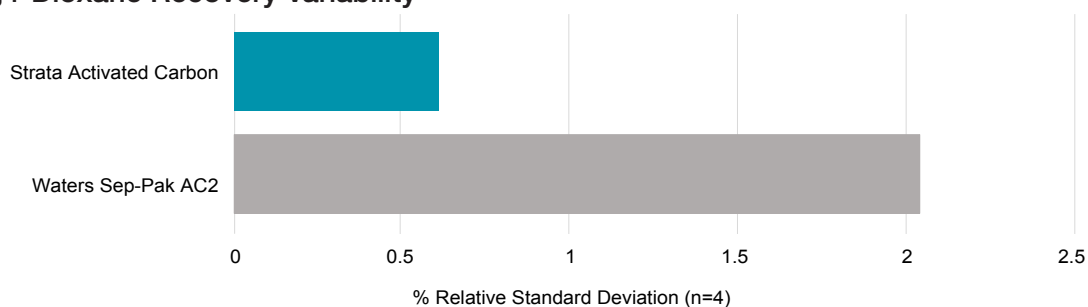
400 mg
pass through



% Recovery of 1,4-Dioxane on a 400 mg Activated Carbon Format



1,4-Dioxane Recovery Variability



[Download Complete Application](#)

Ordering Information

Strata™ Activated Carbon

Technique	Part number	Sorbent Mass	Volume	Format	Units/pk
Sample Prep	CS0-9209	2 g	6 mL	Tube	30
Sample Prep	CS0-9210	400 mg	Pass through	Cartridge	50

Other Products

Technique	Product	Part number
Sample Prep	Strata Sodium Sulfate, 1 g / 20 mL, Giga™ Tubes	8B-S124-JEG
Sample Prep	Strata Sodium Sulfate, 5 g / 20 mL, Giga Tubes	8B-S124-LEG
Sample Prep	Presston™ 1000 Positive Pressure Manifold	AH1-7033
Sample Prep	Empty SPE Tubes, 6 cc	AH0-7002
Sample Prep	SPE-Column Adapter	A80215
GC	Zebon™ ZB-624 ^{PLUS} ™, GC Cap. Column 30 m x 0.25 mm x 1.40 µm	7HG-G040-27
GC	Zebon ZB-5MS ^{PLUS} ™, GC Cap. Column 30 m x 0.25 mm x 1.00 µm	7HG-G030-22
GC	Zebon PLUS Liner Single Taper with Wool	AG2-0A11-05



BE-HAPPY™
GUARANTEE

Your happiness is our mission. Take 45 days to try our products. If you are not happy, we'll make it right.
www.phenomenex.com/behappy

New!

Strata Activated Carbon

Australia

t: +61 (0)2-9428-6444
auinfo@phenomenex.com

Austria

t: +43 (0)1-319-1301
anfrage@phenomenex.com

Belgium

t: +32 (0)2 503 4015 (French)
t: +32 (0)2 511 8666 (Dutch)
beinfo@phenomenex.com

Canada

t: +1 (800) 543-3681
www.phenomenex.com/chat

China

t: +86 400-606-8099
cninfo@phenomenex.com

Czech Republic

t: +420 272 017 077
cz-info@phenomenex.com

Denmark

t: +45 4824 8048
nordicinfo@phenomenex.com

Finland

t: +358 (0)9 4789 0063
nordicinfo@phenomenex.com

France

t: +33 (0)1 30 09 21 10
franceinfo@phenomenex.com

Germany

t: +49 (0)6021-58830-0
anfrage@phenomenex.com

Hong Kong

t: +852 6012 8162
hkinfo@phenomenex.com

India

t: +91 (0)40-3012 2400
indiainfo@phenomenex.com

Indonesia

t: +62 21 5010 9707
indoinfo@phenomenex.com

Ireland

t: +353 (0)1 247 5405
eireinfo@phenomenex.com

Italy

t: +39 051 6327511
italiainfo@phenomenex.com

Japan

t: +81 (0) 120-149-262
jpinfo@phenomenex.com

Luxembourg

t: +31 (0)30-2418700
nlinfo@phenomenex.com

Mexico

t: 01-800-844-5226
tecnicomx@phenomenex.com

The Netherlands

t: +31 (0)30-2418700
nlinfo@phenomenex.com

New Zealand

t: +64 (0)9-4780951
nzinfo@phenomenex.com

Norway

t: +47 810 02 005
nordicinfo@phenomenex.com

Poland

t: +48 22 104 21 72
pl-info@phenomenex.com

Portugal

t: +351 221 450 488
ptinfo@phenomenex.com

Singapore

t: +65 800-852-3944
sginfo@phenomenex.com

Slovakia

t: +420 272 017 077
sk-info@phenomenex.com

Spain

t: +34 91-413-8613
espinfo@phenomenex.com

Sweden

t: +46 (0)8 611 6950
nordicinfo@phenomenex.com

Switzerland

t: +41 (0)61 692 20 20
swissinfo@phenomenex.com

Taiwan

t: +886 (0) 0801-49-1246
twinfo@phenomenex.com

Thailand

t: +66 (0) 2 566 0287
thaiinfo@phenomenex.com

United Kingdom

t: +44 (0)1625-501367
ukinfo@phenomenex.com

USA

t: +1 (310) 212-0555
www.phenomenex.com/chat

🌐 **All other countries/regions**
Corporate Office USA
t: +1 (310) 212-0555
www.phenomenex.com/chat



www.phenomenex.com

Phenomenex products are available worldwide. For the distributor in your country/region, contact Phenomenex USA, International Department at international@phenomenex.com

Terms and Conditions

Subject to Phenomenex Standard Terms & Conditions, which may be viewed at www.phenomenex.com/TermsAndConditions.

Trademarks

Strata, Zebtron, 624^{PLUS}, 5MS^{PLUS}, Giga, Presston, and BE-HAPPY are trademarks of Phenomenex. UCT and Enviro-Clean are registered trademarks of United Chemical Technologies. Sep Pak is a registered trade mark of Waters Corporation.

Disclaimer

Comparative separations may not be representative of all applications.

Phenomenex is in no way affiliated with United Chemical Technologies or Waters Corporation.

Data courtesy of Weck Laboratories, Inc. We thank Weck Laboratories for their collaboration. Phenomenex is not associated with Weck Laboratories, Inc.

FOR RESEARCH USE ONLY. Not for use in clinical diagnostic procedures.

© 2022 Phenomenex, Inc. All rights reserved.