



Let's Clear the Air...

- **Protect Your Lab**
- **Protect Your Results**
- **Reduce Costs**

Time to Make a Change

The SecurityCAP mobile phase and solvent waste safety caps prevent dangerous vapors and gases from leaving HPLC/UHPLC solvent reservoirs. Over time, these chemicals can have a negative impact on the health of all employees and visitors in the lab. The SecurityCAP also protects HPLC/UHPLC results by preventing airborne particulates and contaminants from entering the solvent bottle, causing irreproducible results, bacterial growth and ghost peaks. When lab safety and dependable results are a priority, you need SecurityCAPs!

Phenomenex SecurityCAP offers:

- **Safer laboratory work environment**
Solvents, vapors, and gases are restricted to their containers
- **Protects HPLC/UHPLC results**
Eliminates dust and other air contaminants from testing results
- **Easy to use**
No more twisting tubes during bottle exchange
- **Confidence during quality and safety audits**
Eliminate aluminum foil or Parafilm® covering solvent bottles





Increase Lab Safety

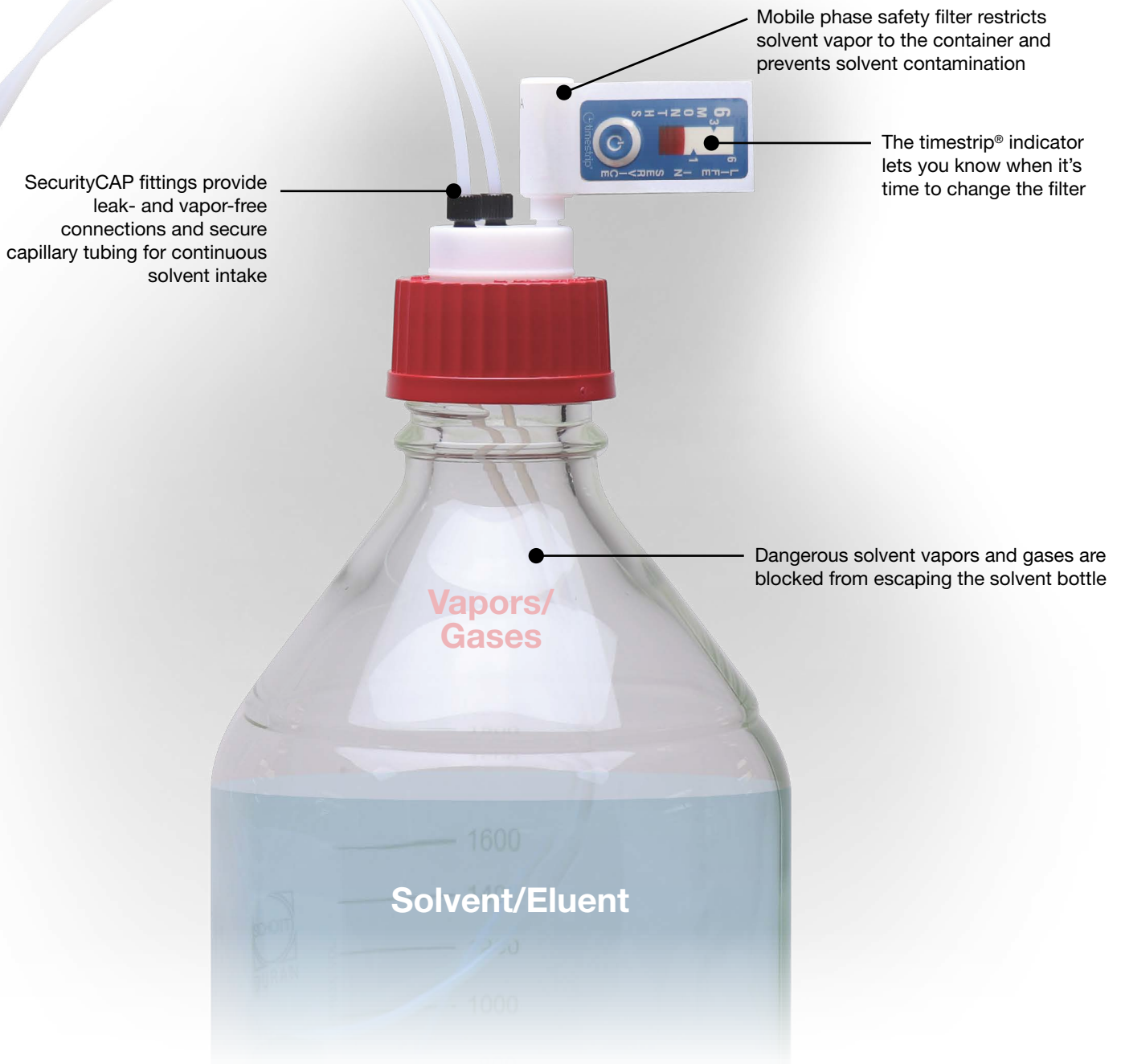
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Solvent/Eluent Protection

Mobile Phase Safety Filter and Cap

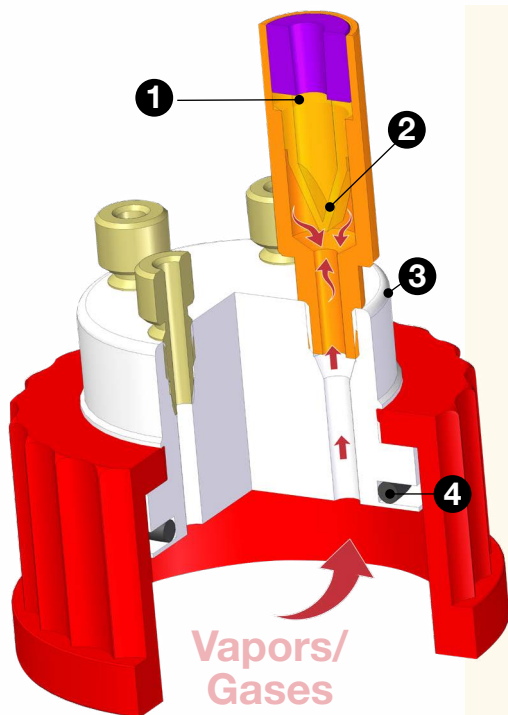
The SecurityCAP™ mobile phase safety filters prevent hazardous solvent vapors and gases from leaving the solvent reservoir that can negatively impact the health of laboratory workers and visitors. The integrated filter membrane captures dust and other contaminants in the air and prevents them from entering the solvent container which can lead to both solvent contamination and bacterial growth, which could negatively impact both your chromatography and HPLC/UHPLC system.



TIP

Remember to replace your SecurityCAP mobile phase filter to maintain optimal performance.

Protect Solvent, Lab Work Environment and Quality Analysis



Standard SecurityCap

1. Particulate Protection

PTFE filter membrane prevents contaminants and dust from entering your solvent.

2. Vapor Protection

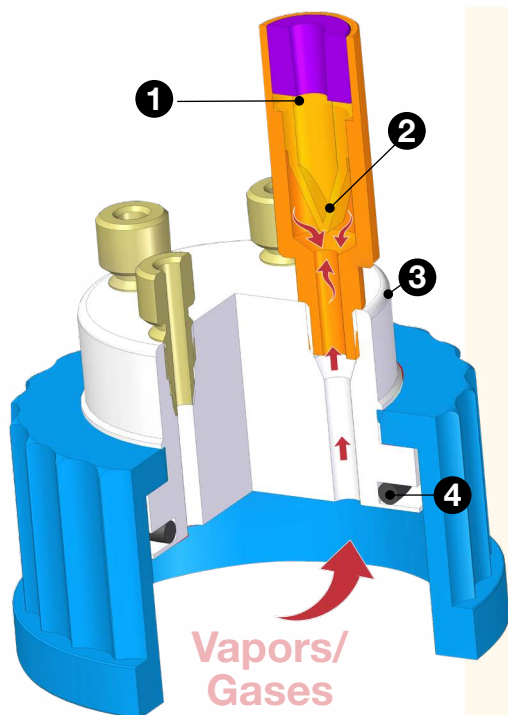
An integrated one-way valve protects lab air quality by preventing hazardous vapors and gases from leaving the solvent container allowing air to flow into the vessel to compensate for the pressure during solvent removal.

3. Anti-twist Design

Freely rotating cap body prevents twisting tubes during solvent bottle exchange.

4. Secure Seal

Viton® O-ring provides airtight connection to the glass bottle.



Designed for PFAS SecurityCap

1. Particulate Protection for PFAS Analysis

The Designed for PFAS SecurityCap features a polypropylene filter membrane, that protects your solvents from contaminants without introducing potential sources of PFAS into HPLC/UHPLC analyses. The cap sub-components have been carefully selected and verified for the absence of PFAS.

2. Vapor Protection

An integrated one-way valve protects lab air quality by preventing hazardous vapors and gases from leaving the solvent container allowing air to flow into the vessel to compensate for the pressure during solvent removal.

3. Anti-twist Design

Freely rotating cap body prevents twisting tubes during solvent bottle exchange.

4. Secure Seal

Viton® O-ring provides airtight connection to the glass bottle.

Solvent Waste Protection

Waste Exhaust Filter and Cap

Dispose of solvent waste safely and ensure lab air quality with SecurityCAP exhaust filters and cap. Feel confident that volatile vapors from solvent waste containers are being captured safely, beyond fume cupboards or hoods.



FACT

Compared to normal activated charcoal, SecurityCAP Waste Safety Filters also adsorb basic and acidic compounds which provides extra protection for your lab.



Filtered Safe Air

Large Capacity Waste Safety Filter

High surface area (560 m²/g) multi-compound adsorbent captures evaporated solvents

Waste Exhaust Filter

Harmful chemical vapors are safely collected and provide air quality protection

Solvent

It's Easy to Change Solvent Waste Containers

Freely rotating cap body prevents twisting tubes during waste container exchange

Polyethylene foam ring provides excellent sealing onto plastic containers

Vapors/
Gases



Worker Safety

Health Protection

The liquids in solvent and waste containers can be extremely dangerous. Laboratory workers often do not know which toxic mixture can emerge from these containers, potentially causing serious harm to themselves or others.

SecurityCAP protects lab workers and visitors from hazardous solvent vapors and gases.

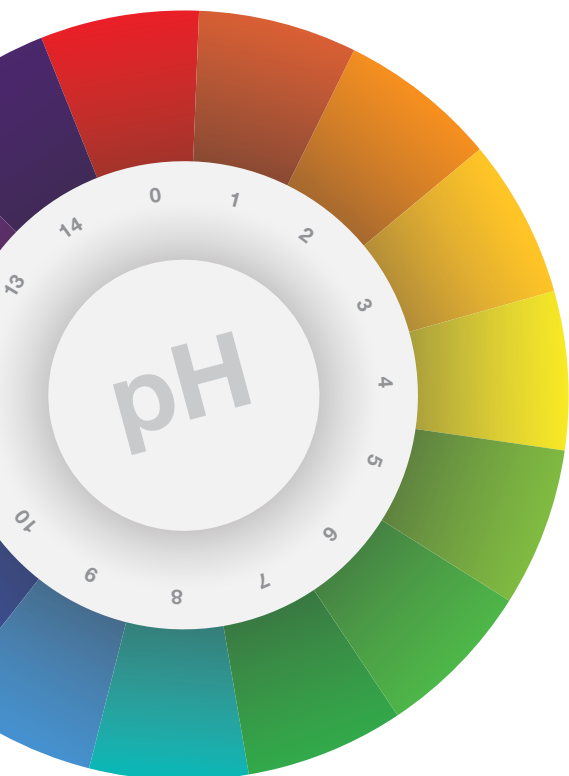


Reliable Results

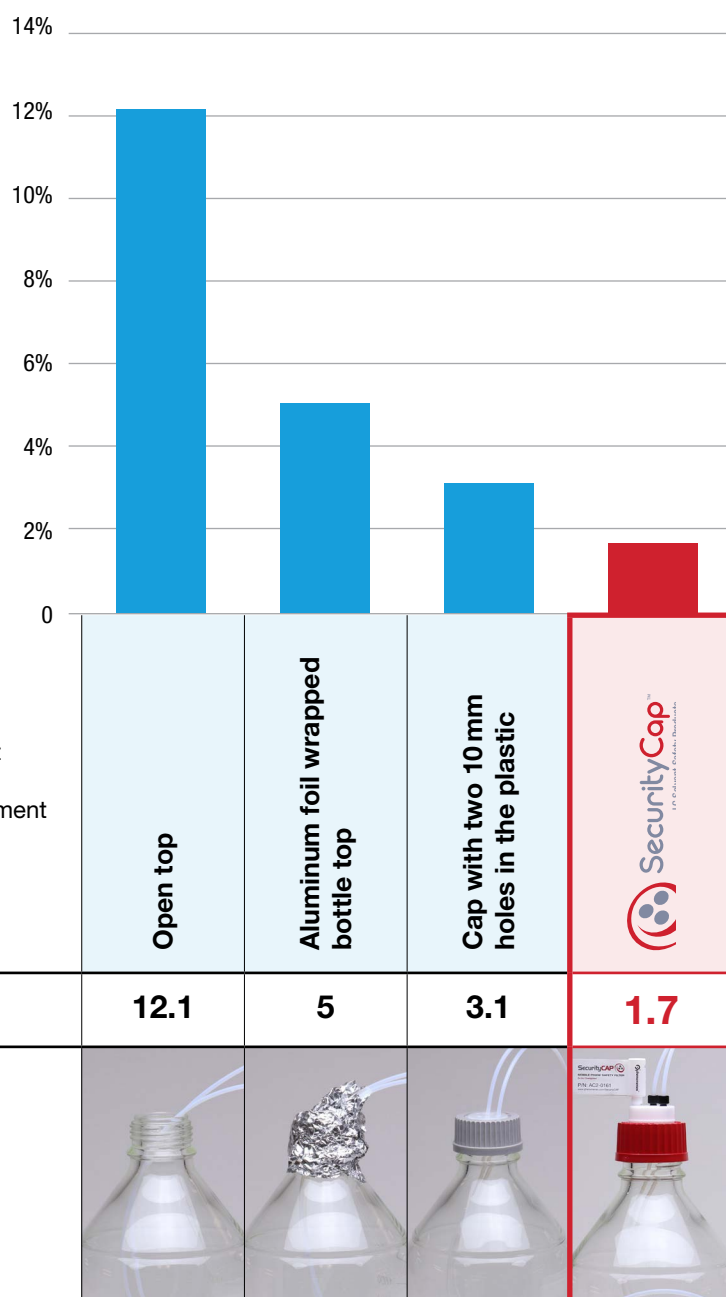
Prevent Unwanted Changes in Mobile Phase pH

As every chromatographer knows, the pH of the mobile phase can have dramatic effects on selectivity, retention, peak shape, resolution, and reproducibility of HPLC/UHPLC analysis. Because slight variations in pH can have a dramatic impact on the separation, careful mobile phase preparation and protection are essential.

When compared to other mobile phase solvent tops, SecurityCAP offers the superior solution to ensure the mobile phase pH will stay constant during use. This ensures reliable solvent/eluent conditions for results you can trust!



Change in pH over 7 days



A 1L solution of 4mM ammonium bicarbonate buffer at pH 11 was made for each bottle and left in a hood for 7 days. The pH was checked before and after the experiment and the percent difference was calculated.

% Change in pH	12.1	5	3.1	1.7
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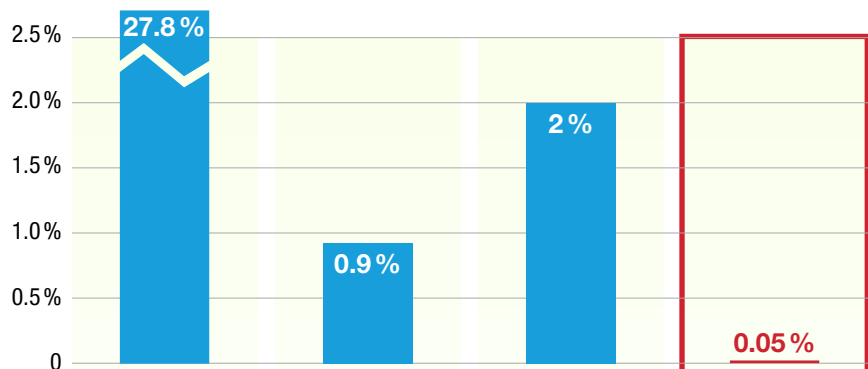
Reduce Costs

Avoid Solvent Evaporation

The annual usage of HPLC and UHPLC grade solvents are a large contributor to laboratory costs for chromatography analysis. Unsecured solvent bottle tops/caps can lead to evaporation and solvent loss. Besides the added cost implications of lost solvent, solvent evaporation also creates air quality health hazards for laboratory staff and visitors.

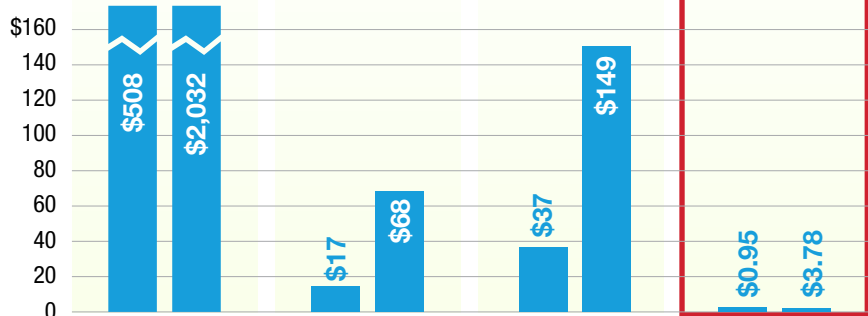
SecurityCAP saves expensive solvents by limiting evaporation and offers air quality protection from insufficient sealed tops/caps. Based on your labs total solvent usage, the potential financial gains and air quality improvement of incorporating SecurityCAP products can be significant.

Methanol Loss Over 10 Days by Weight



Open top
Aluminum foil wrapped bottle top
Cap with two 10 mm holes in the plastic
SecurityCap™
A Phenomenex Product

Cost of Lost/ Evaporated Solvent Per Year



■ Cost per year/Solvent Bottle* ■ Cost per year/Solvent Bottle (x4)

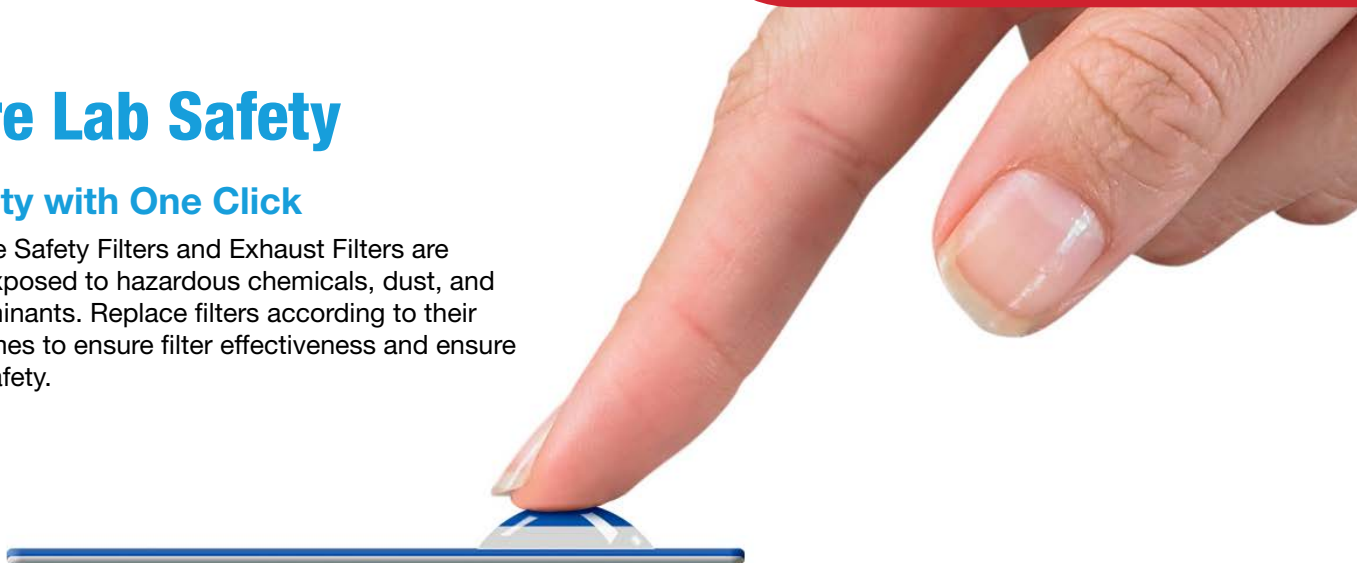
*Cost calculations using \$50 for 1L of methanol



Ensure Lab Safety

Lab Safety with One Click

Mobile Phase Safety Filters and Exhaust Filters are constantly exposed to hazardous chemicals, dust, and other contaminants. Replace filters according to their service lifetimes to ensure filter effectiveness and ensure workplace safety.



Easily Check Product Lifetime!

The timestrip® change indicator is easily activated by pushing the activation button. The red color bar indicates when a filter change is needed.

The diagram shows four stages of the timestrip indicator, each with a '6 MONTHS' label on the left and 'LIFE IN SERVICE' on the right. A red oval highlights the activation button in the second stage.

- Adhere to Filter:** The indicator is white.
- Activate:** The indicator is white, and the activation button is highlighted with a red oval.
- In Use:** A red bar appears at the bottom of the indicator.
- Replace:** The red bar fills the entire indicator.

TIP

Reordering is Easy!

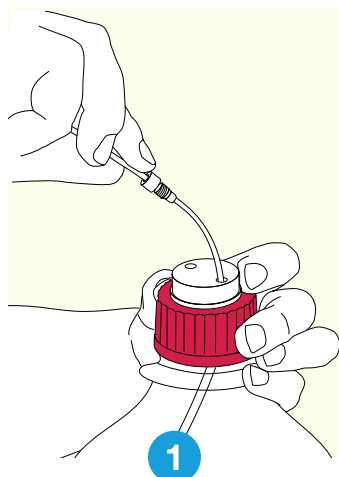
When it's time to replace your mobile phase safety filter or exhaust filter, order online at [phenomenex.com/SecurityCAP](https://www.phenomenex.com/SecurityCAP)

Disclaimer

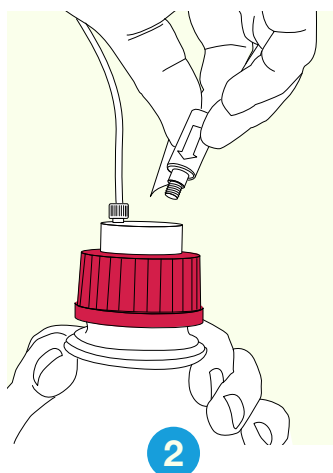
The 6-month SecurityCAP filter lifetime is a general guideline based on running a single instrument for 8 hours a day at 1mL/min. SecurityCAP filters may need to be changed more or less frequently based the system usage.

Easy to Install

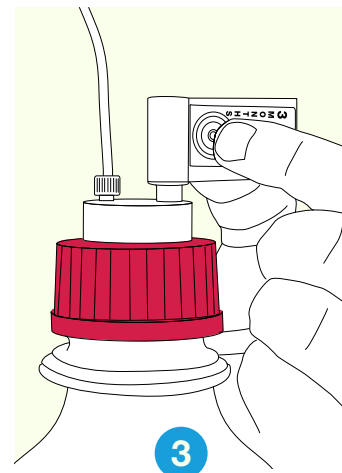
Mobile Phase Safety Cap and Filter



1
Insert the solvent tube through the fitting, and then through the SecurityCAP

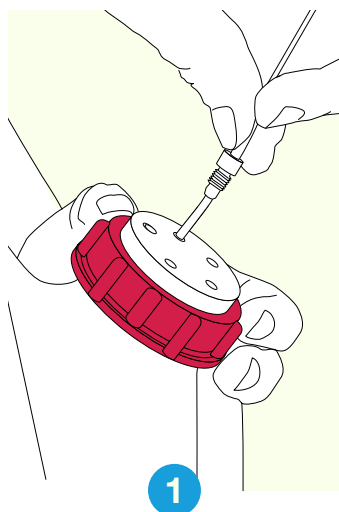


2
Screw the mobile phase safety filter into a free port of the SecurityCAP

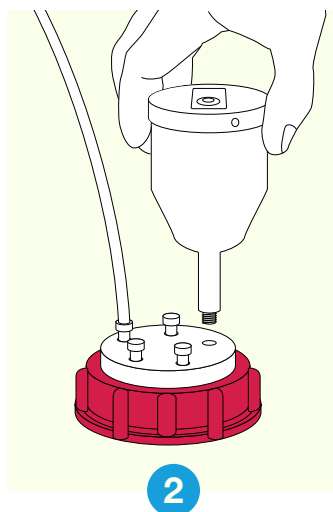


3
Affix the timestrip® to the mobile phase safety filter and press the activation button

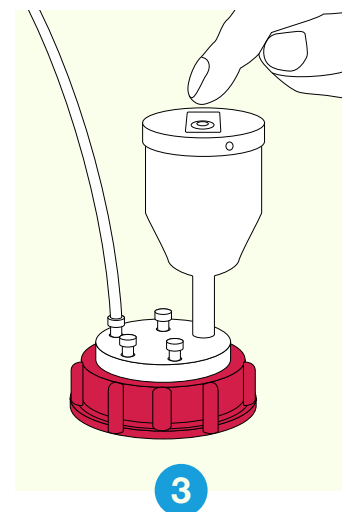
Waste Safety Cap and Filter



1
Insert the solvent tube through the fitting, and then through the SecurityCAP



2
Remove the yellow strip completely from the exhaust filter before install. Screw the exhaust filter into a free port of the SecurityCAP



3
Firmly press the activation button of the timestrip indicator

Need Help with Installation?

Chat Live with a Technical Expert Now!

www.phenomenex.com/chat



The Clear Choice

HPLC/UHPLC Solvent Top/Cap Comparison

SecurityCAP offers several advantages over insufficient non-sealed tops/caps which can lead to both hazardous lab conditions and poor chromatography results. When it comes to preventing expensive solvent evaporation and ensuring solvent vapor containment, there is no comparison to SecurityCAP.

	Open top	Aluminum foil wrapped bottle top	Cap with two 10 mm holes in the plastic	SecurityCap™ LC Solvent Safety Products
Protects staff and visitors from volatile organic compounds released into lab	No	No	No	Yes
Ensures confidence during quality and safety audits	No	No	No	Yes
Protects solvents from both atmospheric particulates and contaminants	No	No	No	Yes
Saves money by preventing solvent evaporation	No	No	No	Yes
Prevents chemical spills/splashes	No	No	No	Yes
Time monitor device for protection	No	No	No	Yes
100% Sealable	No	No	No	Yes
Easy to use	Yes	No	Yes	Yes
Improves lab safety	No	No	No	Yes

Ordering Information

Starter Kits

SecurityCAP™ Mobile Phase Starter Kits	Part No.
2-port GL45 Cap and 6-month Safety Filter	AC2-1245
3-port GL45 Cap and 6-month Safety Filter	AC2-1345
2-port GL45 Caps (x4) and 6-month Safety Filter (x4)	AC2-4245
3-port GL45 Caps (x4) and 6-month Safety Filter (x4)	AC2-4345
4-port GL45 Cap (x1) and 2-port Cap (3x) and 6-month Safety Filter (x4)	AC2-4445
4-port GL45 Cap and 6-month Safety Filter	AC2-1445
5-port GL45 Cap and 6-month Safety Filter	AC2-1545
5-port S60/S61 Cap and 6-month Safety Filter	AC2-1561
2-port Merck S40 Caps (x4) and 6-month Safety Filter (x4)	AC2-4240



Designed for PFAS Mobile Phase Safety Products

SecurityCAP Mobile Phase Starter Kits	Part No.
2-port GL45 (x4) Cap and 6-month Safety Filter (x4)	AC2-4245-P
3-port GL45 (x4) Cap and 6-month Safety Filter (x4)	AC2-4345-P



SecurityCAP Mobile Phase Replacement Filter	10/pk
6-month Capacity, ¼ in.-28 Threads	AC2-0961-P

SecurityCAP Waste Starter Kits	Each
2-port GL/DIN45 Cap and 6-month Exhaust Filter + Barbed connector	AC1-1245
5-port GL/DIN45 Cap and 6-month Exhaust Filter	AC1-1545
5-port DIN51 Cap and 6-month Exhaust Filter	AC1-1551
5-port S61 Cap and 6-month Exhaust Filter	AC1-1561



Replacement Filters

SecurityCAP Mobile Phase Safety Filter	Each	10/pk
6-month Capacity, ¼ in.-28 Threads	AC2-0161	AC2-0961



SecurityCAP Waste Safety Filters	Each	3/pk
6-month Exhaust Filter for SecurityCAP, ¼ in.-28 Threads	AC1-0161	AC1-0361
6-month Exhaust Filter for Wide-port Caps, GL14 Threads	AC1-0162	AC1-0362



Disclaimer

The 6 month SecurityCAP filter lifetime is a general guideline based on running a single instrument for 8 hours a day at 1mL/min. SecurityCAP filters may need to be changed more or less frequently based the system usage.



Fittings and Accessories

SecurityCAP™ Fittings	Each
for 1/16 in. or 2.0 mm OD Tubing, 1/4 in.-28 Threads, blue	AC3-1101
for 2.3-2.6 mm OD Tubing, 1/4 in.-28 Threads, white	AC3-1201
for 1/8 in. OD Tubing, 1/4 in.-28 Threads, black	AC3-2101

SecurityCAP Connectors	Each
Barbed connector, for 5-8 mm ID Tubing (PTFE), white	AC3-1001
Y-connector for 6-8 mm ID Tubing, white	AC3-1301

SecurityCAP Adapter	Each
Cap Thread Adapter, PTFE, GPI/GL 38 Female to GL45 Male	AC2-1138

SecurityCAP Sealing Plug	Each
1/4 in.-28 Threads, white	AC3-2001



SecurityCAP Waste Safety Compatibility Table

Supplier	Phenomenex SecurityCAP Filters	
	ea	3/pk
SCAT® Safety Waste Caps	AC1-0162	AC1-0362
AIT® SmartCaps™	AC1-0162	AC1-0362
Agilent® InfinityLab Stay Safe Caps	AC1-0162	AC1-0362
VICI® Waste Caps	AC1-0161	AC1-0361
Canary-Safe™ Safety Caps	AC1-0162	AC1-0362
DURAN® DG Safety Caps	AC1-0162	AC1-0362

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- Protect Your Results
- Reduce Costs

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