

Extended Gemini™ C18 Column Lifetime Using SecurityGuard™

Rola El Abaji, Jenks Presley, and Bryan Tackett, PhD
Phenomenex, Inc., 411 Madrid Ave., Torrance, CA 90501 USA

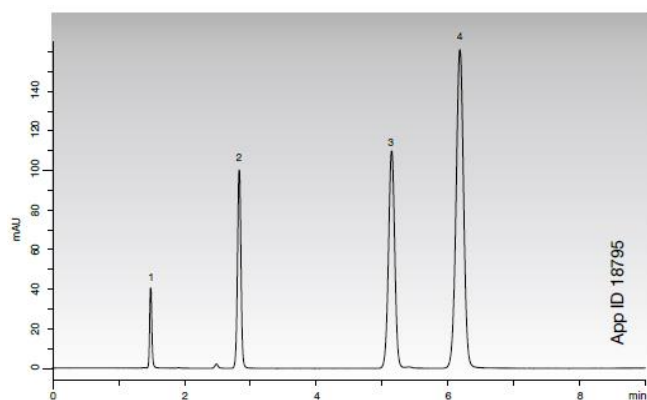
Overview

This application demonstrates that SecurityGuard, the universal HPLC guard cartridge system, protects your Gemini C18 column and prolongs its lifetime. The holder conveniently finger-tightens directly into your Gemini analytical column endfittings, retaining contaminants on a disposable 4 mm cartridge. SecurityGuard eliminates contaminants and clogged frits that lead to split peaks, baseline noise, high backpressure, and loss of resolution. Unlike other guard systems, where you can only guess when it is time for a cartridge change, you can quickly open the SecurityGuard holder and visually check the surface of the cartridge for contamination. Unlike longer guard cartridges, the SecurityGuard short 4 mm analytical cartridges have virtually no effect on efficiency, retention time, or backpressure. This protection leads to longer column lifetime.

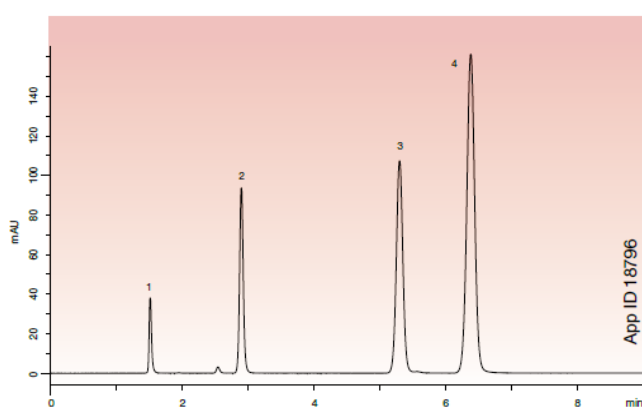
HPLC Conditions:

Column: Gemini 5 μ m C18
Dimension: 150 x 4.6 mm
Part No.: [00F-4435-E0](#)
Guard: SecurityGuard Gemini C18 Cartridge: [AJ0-7597](#)
Mobile Phase: Acetonitrile / Water (65:35, v/v)
Flow rate: 1.0 mL/min
Injection Volume: 0.5 μ L
Temperature: 25 °C
Detection: UV @ 254 nm
Sample: 1. Uracil
2. Acetophenone
3. Toluene
4. Naphthalene

Gemini 5 μ m C18 Column Without SecurityGuard



Gemini 5 μ m C18 Column With SecurityGuard



Need a different column size or sample preparation format?

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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
info@phenomenex.com

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
eirinfo@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
info@phenomenex.com

☉ All other countries/regions

Corporate Office USA
t: +1 (310) 212-0555
info@phenomenex.com

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Disclaimer

Comparative separations may not be representative of all applications.

SecurityGuard is patented by Phenomenex. U.S. Patent No. 6,162,362.

CAUTION: this patent only applies to the analytical-sized guard cartridge holder, and does not apply to SemiPrep, PREP, or ULTRA holders, or to any cartridges.

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