

## Extended Luna™ C18(2) Column Lifetime Using SecurityGuard™

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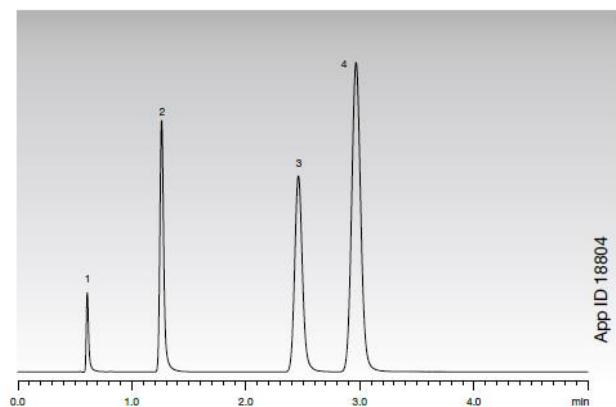
### Overview

This application demonstrates that SecurityGuard, the universal HPLC guard cartridge system, protects your Luna C18(2) column and prolongs its lifetime. The holder conveniently finger-tightens directly into your Luna 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.

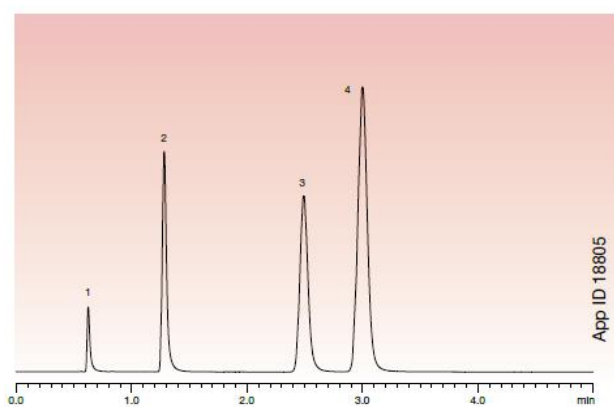
### HPLC Conditions:

**Column:** Luna 3  $\mu$ m C18(2)  
**Dimension:** 150 x 4.6 mm  
**Part No.:** [00F-4251-E0](#)  
**Guard:** SecurityGuard C18 Cartridge: [AJ0-4287](#)  
**Mobile Phase:** Acetonitrile / Water (65:35, v/v)  
**Flow rate:** 0.75 mL/min  
**Injection Volume:** 0.5  $\mu$ L  
**Temperature.:** 25 °C  
**Detection:** UV @ 254 nm  
**Sample:** 1. Uracil  
2. Acetophenone  
3. Toluene  
4. Naphthalene

Luna 3  $\mu$ m C18(2) Column Without SecurityGuard



Luna 3  $\mu$ m C18(2) Column With SecurityGuard



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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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