

Gas Chromatography/  
Mass Spectrometry

## Clarus SQ 8 GC/MS Application Pack for Drugs of Abuse in Urine



The United States Department of Health and Human Services (DHHS), Substance Abuse and Mental Health Services Administration (SAMHSA) regulates urine drug testing programs in the mandatory guidelines for the Federal Workplace Drug Testing Program. These mandatory guidelines require a laboratory to conduct two analytical tests before a urine specimen can be reported positive for a drug – the initial drug test and the confirmatory drug test. The initial drug test is performed by immunoassay screening for the five drug classes of amphetamines, cocaine, opiates, phencyclidine, and marijuana. Examples of immunoassay screening would include radioimmunoassay (RIA) or enzyme immunoassay (EIA, EMIT).

Samples found positive to the immunoassay screening are subjected to a second confirmatory test by chromatographic separation and identification by mass spectrometry. SAMHSA defines the method quantification cutoff level as 2000 ng/mL each for codeine and morphine. If morphine is detected above 2000 ng/mL, then an additional quantification for 6-acetylmorphine is suggested. 6-AM is a unique metabolite indicating the use of heroin, with a cutoff level of 10 ng/mL. This application pack contains all the consumables needed to perform the confirmation test.

**Clarus® SQ 8 GC/MS Application Pack for Drugs of Abuse in Urine****Part No. N9300907**

Pack includes one of each of the following items (some items may ship separately):

| <b>Description</b>  | <b>Part No.</b> |
|---|-----------------|
| Application note: Drugs of Abuse in Urine   |                 |
| Elite-5 Column<br>Length: 12 m, I.D.: 0.20 mm, Film Thickness: 0.33 µm, Temperature Limits: -60 to 325/350 °C | N9316110        |
| Siltek Splitter Split Liner with Wool 4 mm; 4 mm I.D. x 6.2 mm O.D x 92.1 mm Length – 5/Pkg.                  | N6502010        |
| Thermogreen Low Bleed Injector Port Septa – 50/Pkg.   | N6621028        |
| Graphite/Vespel Ferrules, 1/16 in x 0.4 mm – 10/Pkg.  | 09920104        |
| 2 mL, 11 mm Clear Crimp Top Vial – 100/Pkg.   | N9301385        |
| Aluminum Crimp Top Autosampler Caps with Teflon®-Lined Butyl Rubber Septa for 11 mm Vials – 100/Pkg.          | N9306015        |
| Supra-Clean™ SPE C18 Column, 200 mg/3 mL – 50/Pkg.  | N9306462        |
| Marathon Filament for GC/MS   | N6470012        |
| <i>All contents can be ordered individually.</i>  |                 |

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**For complete listing of consumables and supplies, please visit [www.perkinelmer.com/gcsupplies](http://www.perkinelmer.com/gcsupplies)**

PerkinElmer, Inc.  
940 Winter Street  
Waltham, MA 02451 USA  
P: (800) 762-4000 or  
(+1) 203-925-4602  
[www.perkinelmer.com](http://www.perkinelmer.com)



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