

# Application Report 38

## Estrogen Metabolites on the Equity-5

This application demonstrates the use of a short, narrow-bore Equity-5 column for the separation of estrogen metabolites. This column provided excellent peak shape, response and resolution of the analytes. All compounds were analyzed as methylated derivatives.

### Key Words

estrogen metabolites, estrogen, narrow-bore, Equity, 28087-U

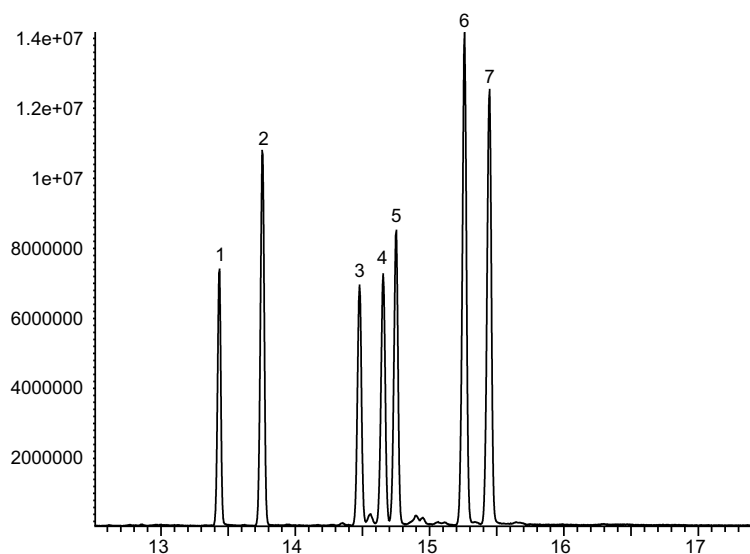
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Raw Data File Name:

\\June03\0609004.D

Acquisition System: GC6249

Notebook Reference: 1435-60



The estrogen metabolite standard was provided courtesy of the David and Alice Jurist Institute for Research at Hackensack University Medical Center, Hackensack, NJ 07601. Affiliated with the Dept. of Medicine UMDNJ, Newark, NJ.

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### Conditions

Column: Equity-5, 12m x 0.20mm ID, 0.33 $\mu$ m  
Cat. No.: 28087-U  
Oven: 80°C (1 min), 15°C/min to 260°C (1 min)  
Inj.: 300°C  
MSD Interface: 270°C  
Scan Range: 50-550m/z  
Flow: Helium, 1.0mL/min constant  
Injection: 0.2 $\mu$ L pulsed splitless, (pulsed to 2.5mL/min until 0.5 min)  
split open at 1.5 min  
Liner: 2mm ID, straight  
Sample: 100ppm methylated estrogen metabolites in pyridine

### Peak IDs

1. Estrone
2. Estradiol
3. 2-Hydroxyestrone
4. 16-Hydroxyestrone
5. 4-Hydroxyestrone
6. Estriol
7. Epiestriol