

## MMA Calibration from Human Serum on Gemini C18, 3u, 100x3 mm

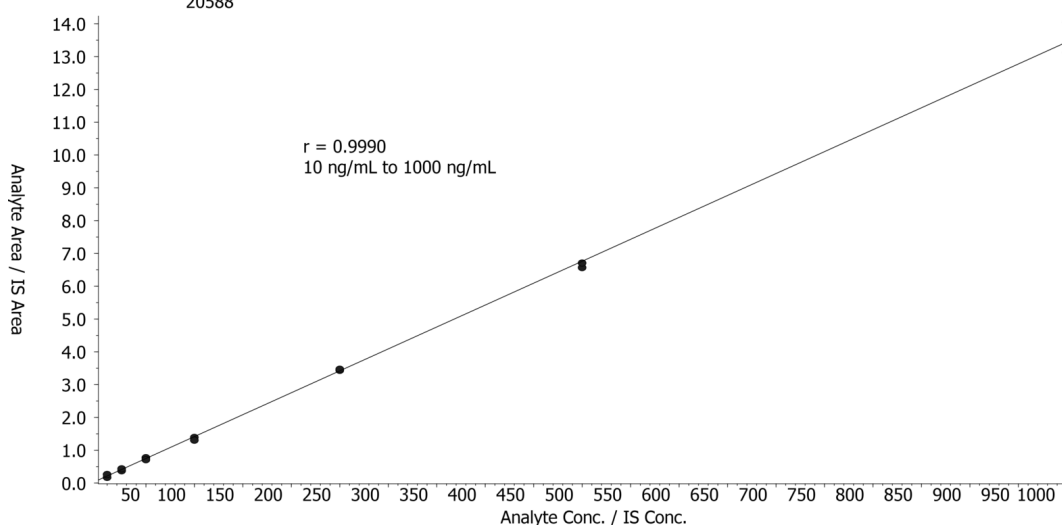
**Column:** Gemini® 3 µm C18 110 Å, LC Column 100 x 3 mm, Ea  
**Dimensions:** 100 x 3 mm ID  
**Order No:** 00D-4439-Y0  
**Elution Type:** Gradient  
**Eluent A:** 0.1% Formic Acid in DI H<sub>2</sub>O  
**Eluent B:** 0.1% Formic Acid + 10 mM Ammonium Formate in MeOH

| Gradient Profile: | Step No. | Time (min) | Pct A | Pct B |
|-------------------|----------|------------|-------|-------|
|                   | 1        | 0          | 85    | 15    |
|                   | 2        | 1.5        | 5     | 95    |
|                   | 3        | 2.5        | 5     | 95    |
|                   | 4        | 2.51       | 85    | 15    |
|                   | 5        | 4.5        | 85    | 15    |

**Flow Rate:** 700  
**Col. Temp.:** 40 °C  
**Detection:** Circular Dichroism @ 0.0000000000 (ambient)  
**Analyst Note:** SecurityGuard™ Guard Cartridge System extends column lifetime.  
 - SecurityGuard Cartridges, Gemini C18 4 x 2.0mm ID, 10/Pk Part No.: AJ0-7596  
 - Holder Part No.: KJ0-4282



Products used in this application:



### ANALYTES:

- 1** Succinic acid  
Retention Time: 1.16 min
- 2** Methylmalonic acid-d<sub>3</sub>  
Retention Time: 1.48 min
- 3** Methylmalonic acid  
Retention Time: 1.5 min

