



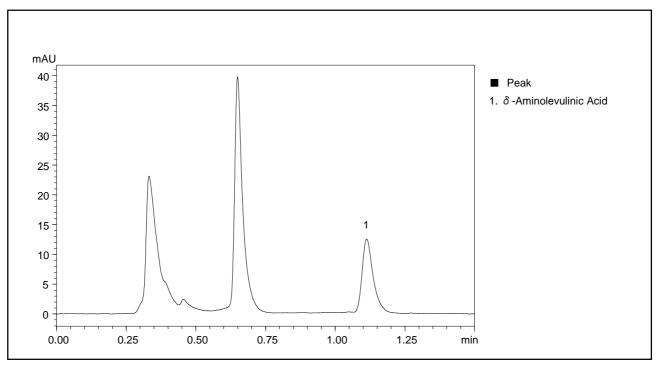
Application Data Sheet



No. 64

High Speed Analysis of Delta-Aminolevulinic Acid

Delta-aminolevulinic acid in urine is known as an effective marker of lead (Pb) exposure. This chromatogram shows results of a high speed separation of delta-aminolevulinic acid in urine by Prominence UFLC.



Analysis of Delta-Aminolevulinic Acid in Urine [Note]

[Sample Preparation]

- 1) 0.45 mL of 8.5% formaldehyde was added to a 20 μ L urine sample.
- 2) 3.5mL of a mixed solution of acetylacetone, ethanol, and distilled water was added to the solution from Step 1.
- 3) After heating the solution for 15 minutes in boiling water then cooling it in a water bath, the solution was injected into the HPLC system.

Note: This data was provided by BML Inc.

Analytical Conditions

: Prominence UFLC system Instrument Column : Shim-pack XR-ODS (50 mm × 3.0 mm i.d.) Mobile Phase : A) Water, B) Methanol, C) Acetic acid A/B/C = 53/45/2 (v/v/v)Flow Rate : 0.8mL/min

Column Temperature :40 °C

Detection : Fluorecence (Ex: 363nm, Em: 473nm) with Semi-micro flow cell

Sample Volume :5 µL

Note: The indicated data was not acquired using a system registered by Japanese Pharmaceutical Affairs Act.

