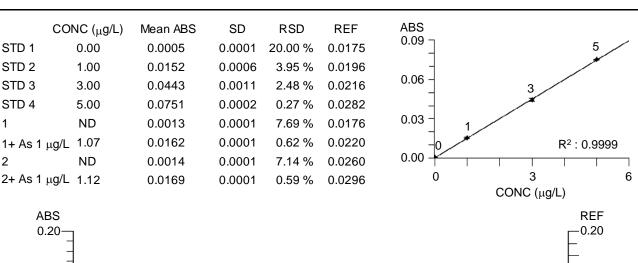


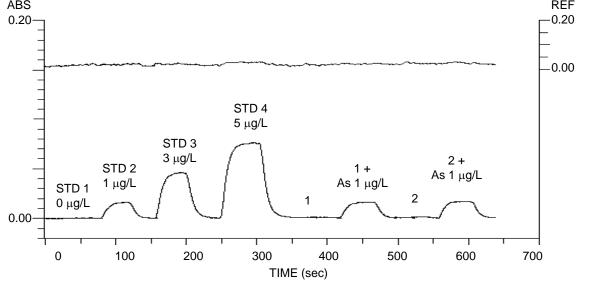
Analysis of As in Drink (Flame Method)

INTRODUCTION: The standard for the ingredients in refreshing drinks as specified in the Food Sanitation Act states that arsenic should not be detected. Therefore, for the purpose of quality control, the analysis of arsenic is being performed. ZA3000 series instruments employ the polarized zeeman method as the BKG correction method even for the hydride generation method and it is possible to perform accurate BKG corrections and also to analyze arsenic with an extremely stable baseline. The result of the spike recovery test indicates that arsenic in drinks can be correctly analyzed.

INSTRUMENT CONDITIONS				MEASUREMENT PARAMETERS
Element Instrument Atomization Wavelength Lamp Current Slit Width	: As : ZA3000 : Flame : 193.7 nm : 12.0 mA : 1.3 nm	Atomizer Flame Fuel (C ₂ H ₂) Oxidant (Air) Burner Height	: STD Burner : Air-C ₂ H ₂ : 1.2 L/min : 160 kPa 15.0 L/min : 10.0 mm	Meas. Mode : Working Curve Signal Mode : BKG Corrected Curve Order : Linear Calculation : Integration Time Constant : 2.0 sec Calculation Time: 5.0 sec Delay Time : 5 sec

NOTE : Sample 1 : Deep ocean water, Sample 2: Tea drink





KEY WORDS Bio/Medical Science/Food/Pharmaceutical,, Food, Food Chemistry, Toxins in Food, Drink, Arsenic, As, Flame, Hydride Generator, AA, ZA3000, HFS-3

Atomic Absorption Photometer (AA)

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