



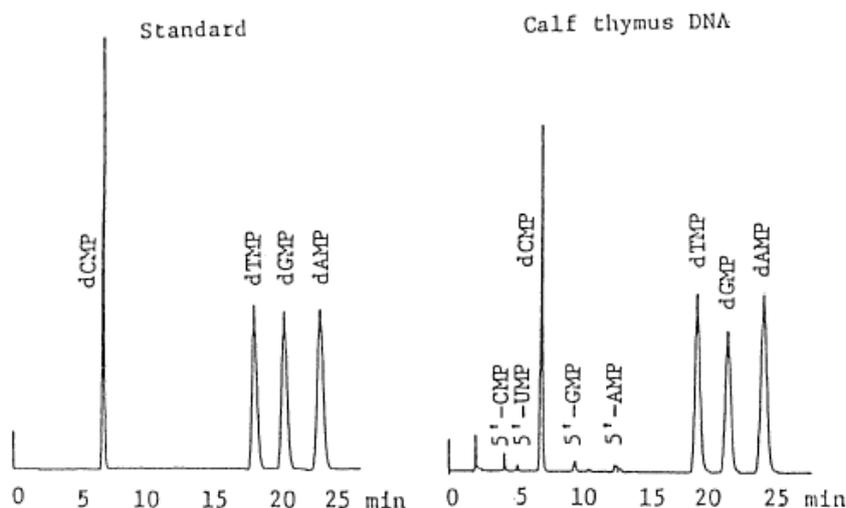
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## Standard mixture for analysis of GC content of DNA with nuclease P<sub>1</sub>

Abbreviation: DNA-GC kit  
Code No.: 7160  
Quantity: 1 kit  
Kit Component: 1. GC Analysis Standard (Lyophilized) 3 tubes  
(Each 50 nmol/tube of sodium salt of dCMP, dAMP, dGMP, dTMP)  
2. Nuclease P<sub>1</sub> (400 units, Lyophilized) 1 tube  
Storage: Store at 2-8 °C  
Note: Research use only.

### HPLC pattern of the standard mixture and calf thymus DNA hydrolysate



Column: YMC pack AQ-312 (Reverse phase) 6.0 mm I.D. × 150 mm  
Mobile phase: 10 mM H<sub>3</sub>PO<sub>4</sub> - 10 mM KH<sub>2</sub>PO<sub>4</sub> (pH 3.5 ± 0.1)  
Temperature: 25 ± 0.5 °C  
Flow rate: 1.5 mL/min  
Detector: UV270 nm, 0.16 AUFS

The standard mixture was dissolved in 100 μL of distilled water. Five μL thereof was applied.

### Preparation of Enzyme solution (2 units/mL)

1. Nuclease P<sub>1</sub> (400 units/vial) dissolve in 1 mL of distilled water.
2. Reconstituted enzyme solution is diluted with 40 mM sodium acetate buffer, containing  $2 \times 10^{-4}$  M ZnCl<sub>2</sub>, pH 5.3.

- References: 1) Kumagai M. et al., Nucleic Acids Research Symposium series, No19, 65 (1988).  
2) Noguchi T. et al., Agric. Biol. Chem., 52, 2355(1988).  
3) Kaneto T. et al., J. Microbiol. Methods 4, 229 (1986).