



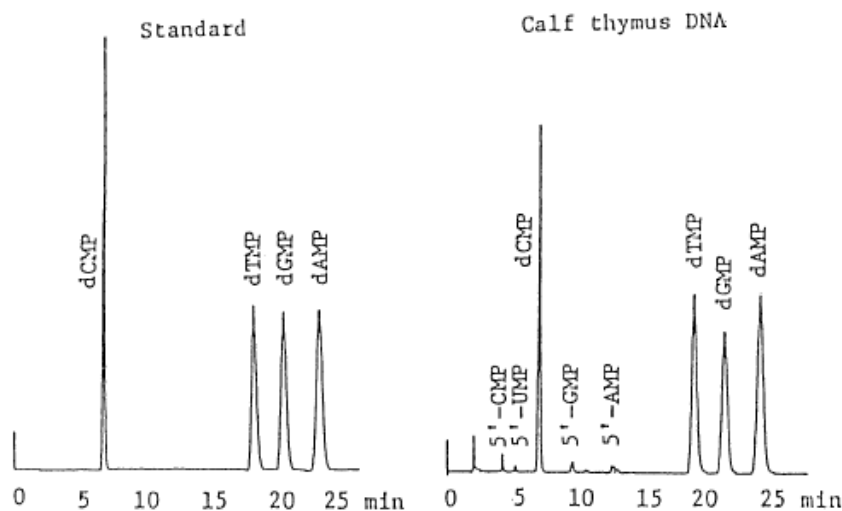
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Standard mixture for analysis of GC content of DNA with nuclease P₁

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. NucleaseP₁ (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 (Reverse phase) 6.0 mm I.D. × 150 mm
Mobile phase: 10 mM H₃PO₄ - 10 mM KH₂PO₄ (pH3.5 ± 0.1)
Temperature: 25 ± 0.5 °C
Flow rate: 1.5 mL/min
Detector: UV270 nm

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 P₁ (400 units/vial) dissolve in 1 mL of distilled water.
2. Reconstituted enzyme solution is diluted with 40 mM sodium acetate buffer, containing 2×10^{-4} M ZnCl₂, pH5.3.

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).