

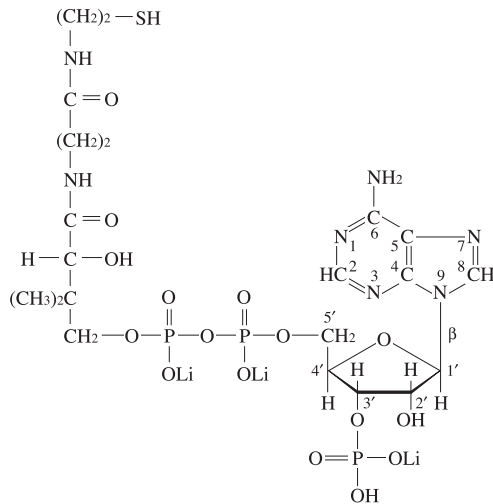
Co A-Li

Coenzyme A (trilithium salt)

Co A-SH (trilithium salt)

from Yeast

Structure



Formula : $C_{21}H_{33}N_7O_{16}P_3S \cdot Li_3$

Formula weight : 785.3

Specification

Purity

Determined by Enzymatic Method (PTA)

Water Content

Li

UV Spectral Analysis

Ratio at pH 7.5

$$\frac{A_{250}}{A_{260}}$$

$$\frac{A_{280}}{A_{260}}$$

Specifications

$\geq 75\%$

$< 8\%$

$3.0 \pm 1.5\%$

0.78 ± 0.03

0.16 ± 0.03

Assay Procedure

I. Spectrophotometric Method

Wavelength ; 233 nm, Light path length ; 1 cm

Pipette the following reagents into a cuvette

	a	b
Tris-HCl (0.1 mol/L, pH 7.5)	4.00 mL	4.00 mL
Ac-P (20 mg/mL)	0.20 mL	0.20 mL
CoA (1.0 mg/mL)	0.50 mL	0.50 mL
PTA*	0.01 mL	—
*Phosphotransacetylase (5,000 IU/mL)		

II. Calculation

$$\frac{\Delta A \cdot V \cdot MW \times 100}{4.44 \times 10^3 \cdot d \cdot v \cdot s} \times \frac{100}{(100 - L - W)} = \text{Purity of CoA}$$

$\Delta A = A_a - A_b$

V = Total volume of reaction mixture (4.71 mL)

MW 767.5, anhydrate/sodium free

$4.44 \times 10^3 =$ Molar extinction coefficient of Acetyl-CoA at 233 nm ($L \cdot \text{mol}^{-1} \cdot \text{cm}^{-1}$)

d = Light path length (1 cm)

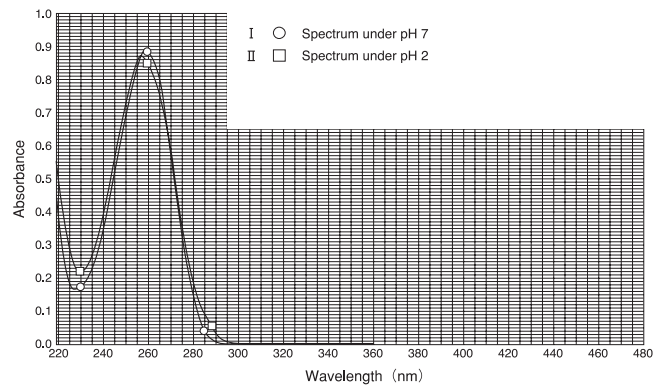
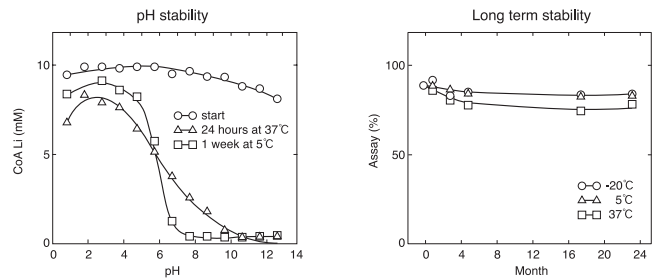
v = Sample volume (0.5 mL)

s = Sample concentration (1.0 mg/mL)

L = Li (%)

W = Water Content (%)

Reference Data



Storage

Keep tightly stoppered in the dark below 5°C.

For prolonged storage keep below -20°C.

OYC No./Package

OYC No.	Package
45160000	100 mg
45162000	1 g
45162900	Bulk

(Research reagent use only, not for medical use.)



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