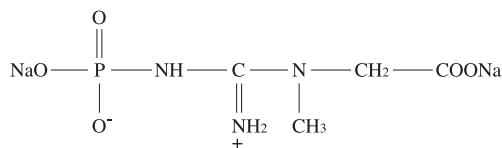


CP

Creatine phosphate (disodium salt)

N-[Imino (phosphonoamino) methyl] -N-methylglycine (disodium salt)

Structure



Formula : C₄H₈N₃O₅P·Na₂

Formula weight : 255.1

Specification

Purity

Determined by Enzymatic Method
(CK, HK, G-6-PDH)

Creatine content

Water Content

Na

Specifications

≥95%

<1%

<30%

14.0 ± 2%

II. Calculation

$$\frac{\Delta A \cdot V \cdot MW \times 100}{6.2 \times 10^3 \cdot d \cdot v \cdot s} \times \frac{100}{(100 - S - W)} = \text{Purity of CP}$$

$$\Delta A = A_a - (A_b + A_c)$$

V = Total volume of reaction mixture (6.0 mL)

MW = 211.1, anhydride/sodium free

6.2 × 10³ = Molar extinction coefficient of NADPH at 340 nm (L·mol⁻¹·cm⁻¹)

d = Light path length (1 cm)

v = Sample volume (0.5 mL)

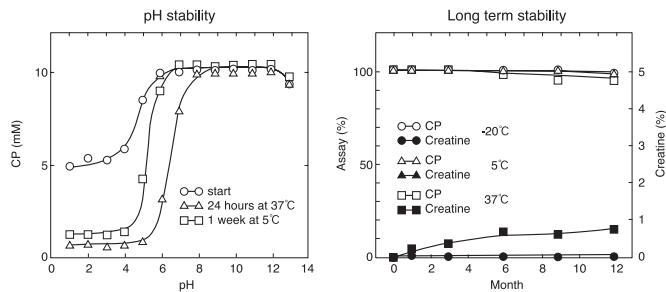
s = Sample concentration (0.3 mg/mL)

S = Na (%)

W = Water Content (%)

Substrates

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
45180000	1 g
45182000	10 g
45180900	Bulk

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



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