



# NSK-B

## Free Carnitine and Acylcarnitine Reference Standards

This set contains 10 vials of a dry mixture of eight isotopically labeled free carnitine and acylcarnitines. Accurate and complete reconstitution of the contents of one vial in 1 mL of high purity solvent will produce the concentrations presented in the Standard Concentrations table. Mix well. This solution becomes the concentrated acylcarnitine stock standard.

### Dilution of Reference Standards Concentrated Working Stock

To prepare working stock solutions, one of the following procedures is suggested:

- Dilute 1 mL (reconstituted vial contents per instructions above) of the concentrated acylcarnitine stock standard with pure solvent.
- If Set A (Amino Acid Reference Standards) was purchased, mix 1 mL (vial contents) of concentrated standards from Set A with 1 mL of the concentrated standards from Set B.

Store the diluted standards in a tightly sealed vial at 4°C. In order to maintain the integrity of the solution, we recommend storing the sealed vials in a second sealed container. We recommend discarding this concentrated working stock solution after ~1 month. Stability data is being obtained.

### Standards Concentrations

Reference Standard	Concentration (nmol/mL)
$^2\text{H}_9$ -Carnitine (free carnitine, CN)	152.0
$^2\text{H}_3$ -Acetylcarnitine (C2)	38.0
$^2\text{H}_3$ -Propionylcarnitine (C3)	7.6
$^2\text{H}_3$ -Butyrylcarnitine (C4)	7.6
$^2\text{H}_9$ -Isovalerylcarnitine (C5)	7.6
$^2\text{H}_3$ -Octanoylcarnitine (C8)	7.6
$^2\text{H}_9$ -Myristoylcarnitine (C14)	7.6
$^2\text{H}_3$ -Palmitoylcarnitine	15.2

For research use only. Not for diagnostic purposes.

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