



NSK-A – Amino Acid Reference Standards

This set contains ten vials of a dry mixture of twelve isotopically labeled amino acids. Accurate and complete reconstitution of the contents of one vial in 1 ml of high purity solvent will produce the concentrations presented in the [Standards Concentrations](#) table. Mix well. This solution becomes the concentrated amino acid 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 amino acid stock standard with pure solvent. If Set B (Acylcarnitine Reference Standards) was purchased, mix 1 ml (reconstituted 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) |
| ^{15}N ; 2- ^{13}C -Glycine | 2500 |
| $^2\text{H}_4$ -Alanine | 500 |
| $^2\text{H}_8$ -Valine | 500 |
| $^2\text{H}_3$ -Leucine | 500 |
| $^2\text{H}_3$ -Methionine | 500 |
| $^{13}\text{C}_6$ -Phenylalanine | 500 |
| $^{13}\text{C}_6$ -Tyrosine | 500 |
| $^2\text{H}_3$ -Aspartate | 500 |
| $^2\text{H}_3$ -Glutamate | 500 |
| $^2\text{H}_2$ -Ornithine | 500 |
| $^2\text{H}_2$ -Citrulline | 500 |
| $^2\text{H}_4$; 5- ^{13}C -Arginine | 500 |

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