

Lab Data Sheet

Amino Acid Derivatives

Standard prep of 12 AA mix: Val, Pro, Ala, Ser, Iso, Tyr, Thr, Asp, Lue, Glu, Nor, Phe

**Sample Weights**

Date: November 28th 2022

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sample #** | **Sample ID** | **Reacti-vial Label** | **Sample + Paper Wt. (mg)** | **Paper Wt. (mg)** |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
| 10 |  |  |  |  |
| 11 |  |  |  |  |
| 12 |  |  |  |  |

**Hydrolysis and Purification**

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

Volume norleucine (internal standard) added to samples: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (µL)

Concentration of internal standard (from bottle): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (mM)

Hydrolysis start time: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hydrolysis end time: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Samples filtered through 0.22 μm Millex-GP (Y/N and date): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Samples filtered through 5 cm resin column (Y/N and date): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Samples de-fatted by liquid-liquid extraction (Y/N and date): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Freeze-dryer start time and date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Freeze-dryer end time and date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Samples stored long-term in 100 µL 0.2 N HCl (Y/N, date, and location): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­­­­

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Esterification**

Esterification method (circle): acetyl chloride or thionyl chloride

Esterification start time and date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Esterification end time and date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Derivatization**

Derivatization method (circle): TFAA or pivaloyl chloride

Derivatization start time: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Derivatization end time: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Extraction & Purification**

Samples purified by liquid-liquid extraction (Y/N and date): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Samples passed through MgSO4 column (Y/N and date): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Storage and GC Analysis**

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

Solvent: \_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sample #** | **GC Vial Label** | **Cryobox Label** | **Volume solvent (**µL) | **Date Run on GC-C-IRMS** |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
| 10 |  |  |  |  |
| 11 |  |  |  |  |
| 12 |  |  |  |  |

**General Notes**