

## Certificate of Analysis

Date of Testing: 2022-12-15 16:29:58  
 Date of Next Testing: 2026-12-14 16:29:58  
 Product Name: **N-(Pyrazinylcarbonyl)-L-phenylalanine**  
 CAS Number: 114457-94-2  
 Specifications & Purity: >98.0%(HPLC)  
 Lot #: L2214140  
 SKU #: **N159866**  
 Analysis: **169435**

| Parameter                                           | Limit Values                                       | Result                                             |
|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Specific Rotation [α] <sub>20</sub> /D(c=1 in MeOH) | 9-12 (°)                                           | 10.86°                                             |
| Melting point                                       | 167-171 (°C)                                       | 168.79000 °C                                       |
| Purity(HPLC)                                        | 98-100 (%)                                         | 99.05100 %                                         |
| Appearance (N159866)                                | white to pale yellow Powder, Crystals and/or Chunk | white to pale yellow Powder, Crystals and/or Chunk |
| Proton NMR spectrum                                 | Conforms to Structure                              | Conforms to Structure                              |



John Su  
QA & QC Manager