

**N-palmitoyl homocysteine (PHC)**

N-palmitoyl homocysteine (ammonium salt)

**870320P-25mg**

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|                          |   |
|--------------------------|---|
| <b>Molecular Weight</b>  | 390.624   |
| <b>Chemical Formula</b>  | C <sub>20</sub> H <sub>42</sub> N <sub>2</sub> O <sub>3</sub> S |
| <b>Physical State</b>    | Powder  |
| <b>Storage</b>           | -20°C   |
| <b>Expiration Date</b>   | One year from date of receipt                                   |
| <b>M Lot Number</b>      | 6190PJD012  |
| <b>Avanti Lot Number</b> | 870320P-25MG-D-012  |

| ANALYSIS             | SPECIFICATION  | RESULTS                                       |
|----------------------|--|---|
| Physical Examination | <b>Powder:</b> White solid which contains no foreign matter  | Pass  |
| TLC                  | >99% Purity<br>Ninhydrin: negative <sup>1</sup><br>Iodine: one major spot<br>Phosphorus: negative<br>Charring: negative<br>Water dip: one major spot<br><br><sup>1</sup> Secondary amine may react with ninhydrin spray, creating a false positive | All Pass                                      |
| Proton NMR           | NMR spectrum consistent with structure   | Consistent with structure                     |
| Mass Spectroscopy    | [M-NH <sub>4</sub> ] <sup>+</sup> = 372.624 ± 1 amu  | [M-NH <sub>4</sub> ] <sup>+</sup> = 372.4 amu |

Approved By:



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